Calculator.

Subtiliſſimi Ricardi Suiſeth Anglici Calculationes nouiter emēdate atq; reuiſe.

Queſtio inſuper de reactione iuxta Ariſtotelis ſententiam & Cōmentatoris.

BIBLIOTECA NAZ. ROMA VITT. EMANUELE

¶ Victor Trincavelius Venetus phyſicus Chriſtophoro Arretino inter profeſſores medicae facultatis noſtra aetate facile Principi. S.

PLatonem/diuinum illum Phm̄, atqꝫ in omni diſciplinaꝝ genere celebratiſſimum (Doctor excellētiſſime) cū iam mortis tēpus inſtaret/eius rei maxime poenituiſſe fertur/ꝙ filios non genuerit/naturaeqꝫ fuerit ingratus: quam qdem ſentētiam dum diutius aliquādo animo reuoluerem/eidem ſtatim crimini eos obnoxios iudicaui: qui cum ipſi/tum in vnaquaqꝫ facultate/tum vel maxime in re litteraria non parum vtilitatis ex priorum maiorūqꝫ ſuorū laboribus reportauerint: eoqꝫ deinde animo ſunt vt nolint ſumma ope niti/aliquid emoliri qd̓ poſteris cōmodi atqꝫ emolumenti aliqd eſſet allaturuꝫ. Saepe igitur cogitaui qua via huius ingratitudinis notam poſſem effugere: dumqꝫ diu anceps haeſitarem/relatum mihi eſt excellētiam tuam tuis diſcipulis legendas propoſuiſſe calculationes Suiſeth Anglici viri acutiſſimi/opus ſane perutile ad exercēda exacuēdaqꝫ iuuenum ingenia, rogaſſeqꝫ heredes olim Octauiani Scoti viros in arte libraria ſollertiſſimos atqꝫ diligētiſſimos/vt illud vellent imprimēduꝫ dare: me aūt non latebat id plurimis mendis ſcatere. Hoc igit̄ onus ſuſcipere decreui: vt ſcilꝫ quo fieri poſſit emēdatius imprimeretur: ſperans quidem hoc tibi non ingratum/ſtudioſiſqꝫ non inutile futurum: non ſum tamē ignarus plus me laboris ꝙ̄ honoris ex hac re ꝯſecuturum. Volui inſuper a tergo quedam noſtra prima rudimenta/primitiaſqꝫ noſtrorum ſtudiorꝫ annectere: quae hincinde ex varijs auctoribus tam priſcis ꝙ̄ recentioribus collegimus circa materiam de reactione: non quidem vt ob id velimus videri plus alijs ſapere, ſed potius quia tuum iudicium in hac re habere plurimū cupio quod ſemper maximi feci/ꝛ vt ſocios noſtros honeſto exercitij genere excitaremus. Vale igitur ſenex eruditiſſime/Victoremqꝫ tuum ea amicitia tibi deuinctuꝫ/vel potius obſeruantia quae ex virtute ſolet prodire/ab eorum morſibus qui hoc noſtrum propoſituꝫ dānare voluerint, tueri non ſis ingratum. Venetijs pridie kalendas Februarij.

¶ Tractatus qui hoc volumine continentur.

De intenſione ꝛ remiſſione.	Tractatus ꝑmus
De difformibus.	2
De intenſione elementi habentis duas qualitates inequę intenſas.	3
De intenſione mixtorum.	4
De raritate ꝛ denſitate.	5
De augmentatione.	6
De reactione.	7
De potentia rei.	8
De difficultate actionis.	9
De maximo ꝛ minimo.	10
De loco elementi.	11
De luminoſis.	12
De actione luminoſi.	13
De motu locali.	14
De medio non reſiſtente.	15
De inductione gradus ſummi.	16

¶ Queſtio de reactione iuxta ſententiam Ariſto. ꝛ Cōmentatoris.

❡ Incipit perutile ac ad oēs ſciētias applicabile calculationū aureū opus Ricardi Suiſetb Anglici Doctoris ſubtiliſſimi.

PEnes quid habeant inteſio ⁊ remiſſio q̄litatis attendi plures ſunt poſitiones. ❡ Pro quo tñ pmo eſt notandū ꝙ inteſio pōt dupl'r accipi. Uno mō pro alteratione mediāte qua q̄litas acquirit: ⁊ ſic loq̄ndo iten⁹ eſt mot⁹. Alio modo dī itenſio qualitas mediāte qua aliqd eſt inteſuz: ſicut calidū eſt inteſuz mediāte caliditate: ⁊ ſic ꝓportional'r de remiſſione dōm eſt. Sʒ de inteſione ⁊ remiſſione 2° mō dictis ad pñs ſit locutio.

1ª pō ❡ Pria poſitio ponit ꝙ iteſio cuiuſlibet q̄litatis attēdit penes appropinq̄tiōeʒ ad ſūmū ſeu ad gradū iteſiſſimuʒ illius latitudinis: ⁊ remiſſio penes diſtātiā a gradu ſūmo.
2ª pō ❡ 2ª poſitio ponit ꝙ inteſio hʒ attēdi penes diſtātiā a nō
3ª pō gradu: ⁊ remiſſio penes diſtātiā a gradu inteſiſſimo. ❡ 3ª poſitio dicit ꝙ iteſio attēdit penes diſtātiaʒ a nō gradu: ⁊ remiſſio penes appropinquationeʒ ad nō gradum.

ↄ pam Cōtra pam pōneʒ arguit ſic. Ex illa ſeq̄t ꝙ gradus ſūmus ſit ifinite iteſus. nā intēdat aliqua caliditas vſq̄ȝ ad ſūmū: tūc 1ª caliditas erit iteſior aliqual'r: ⁊ in duplo ⁊ in quadruplo inteſior: ⁊ ſic in ifinitū: q2 aliq̄ñ erit ꝓpinqua gradui ſūmo: ⁊ in duplo ꝓpingor ⁊ in q̄druplo ꝓpingor: ⁊ ſic in infinitū: ⁊ ſic ꝓportional'r ſicut ꝓpingor erit gradui ſūmo ſm illā poſitionē erit iteſior. ergo ifinite inteſa erit 1ª caliditas ante finē hore: ⁊ in fine erit inteſior q̄ȝ vnq̄ȝ ante fineʒ. ergo caliditas ſūma erit ifinite inteſa qd fuit
2m pbādū. ❡ Itē ex iſta poſitione ſequit ꝙ nō eſt aliqs gradus in duplo minus inteſus q̄ȝ gradus medius illi⁹ latitudinis. ſ. toti⁹ latitudinis caliditatis. H pbat ſic. Nullus gradus p in duplo plus diſtat a gradu ſūmo q̄ȝ gradus medius toti⁹ latitudinis diſtet: q2 non gradus ſolū p in duplo plus diſtat a gradu ſūmo: q̄ȝ gradus medius inter ſūmuʒ ⁊ nō gradū: eo ꝙ mediū eſt qd equal'r diſtat ab extremis. Cuʒ igit nullus gradus per tantū diſtet a ſūmo ſicut nō gradus diſtat ab eodē: ⁊ nō gradus per in duplo pluſ pte diſtat a gradu ſūmo q̄ȝ diſtet gradus medius toti⁹ latitudinis caliditatis ab eodeʒ gradu: ſeq̄t ꝙ nullus gradus per in duplo plus diſtat a ſūmo q̄ȝ medius totius latitudinis: ergo nullius latitudinis gradus eſt in duplo minus iteſus q̄ȝ eſt gradus medius toti⁹ latitudis caliditatis. ꝯñs eſt falſum: q2 aliqs gradus eſt aliqual'r inteſus: ⁊ aliqs in duplo minus iteſus ⁊ in q̄druplo: ⁊ ſic in infinitū: ſicut aliqua q̄titas eſt aliquāta: ⁊ aliqua in duplo minor: ⁊ ſic in ifinitū.
3m igit poſitio falſa. ❡ Itē ſequit ꝙ qlibet gradus mot⁹ eſt infi^te remiſſus: q2 oīs gradus mot⁹ per infinitā diſtātiā diſtat a gradu ifinito mot⁹. Cum ergo nullus ſit gradus inteſiſſimus citra gradū ifinitū mot⁹: ſeq̄t ꝙ qlibet gradus motus per ifinituʒ diſtat a gradu ſūmo ſue latitudinis: ſed ꝯñs
4m eſt falſum. ergo ⁊ añs. ❡ Itē ex iſta pōne ſeq̄t ꝙ q̄libet caliditas citra ſūma ſit infi^te remiſſa: q2 vel eſt gradus ſūmus infinite inteſus: vel finite inteſus. Si ifinite inteſus. ergo oīs gradus citra ſūmū p ifinitū diſtat a gradu ſūmo. ꝯñia tenet per h ꝙ oīs gradus citra ſūmū eſt finit⁹: ⁊ oīs gradus finit⁹ per ifinitū diſtat a gradu ifinito. Cū ergo penes appropinquatiōeʒ gradui ſūmo iuxta illā pōnē habeat iteſio caliditatis attēdi: ſeq̄t ꝙ oīs gradus caliditatis eſt in infi^te remiſſus. Si aūt finite iteſus ſit gradus ſūmus: tūc ſit .a. aliquis gradus remiſſus: ⁊ arguit ſic. In ifinitum ꝓpinquior eſt aliqs gradus gradui ſūmo q̄ȝ .a. q2 p infinitū modicuʒ diſtat aliqs gradus a gradu ſūmo: vt pʒ. ergo ſi penes appropinq̄tionē gradui ſūmo iten⁹ caliditatꝫ vel gradus attēdit: ſeq̄t ꝙ in ifinitū in inteſior eſt aliqs gradus .a. gradu. ergo cū q̄libet gradus citra ſūmū: ⁊ etiā gradus ſūmus ſit ſolū finite inteſus: ſeq̄t ꝙ .a. gradus ſit in ifinitū remiſſus: ſʒ iſta ꝯcluſio eſt falſa. ergo poſitio. ꝙ 1ª ꝯcluſio ſit falſa, pʒ: q2 ſi q̄libet gradus foret ifinite remiſſus: nullus foret aliqual'r inteſus: ⁊ p ꝯñs nullus gradus foret alio iten^s: qd eſt impoſ
ſibile. ❡ Iteʒ ſeq̄t iſta ꝯcluſio ꝙ .a. ⁊ .b. incipiūt a nō gra 5m
du itēdi: ⁊ ꝯtinue equevelociter itenduntur: ⁊ in fine erit vnū altero ifinite iteſius. pbat: q2 incipiat .a. caliditas intēdi a nō gradu: ⁊ intēdat ad ſūmū: ⁊ itēdat .b. mot⁹ a nō gradu: ⁊ itēdat ꝯtinue equevelociter cū .a. tūc ſeq̄t ꝯcluſio ꝙ .a. ⁊ .b. a nō gradu incipiūt intēdi: ⁊ ꝯtinue equevelociter intēdent: vt ponit in caſu. Et ꝙ in fine erit vnū altero infi^te iteſius, pbat: q2 in fine erit .a. ſūmū ⁊ .b. in ifinitū remiſſum: q2 p infinitū diſtabit a gradu ifinito. ergo in fine erit .a. gradus in infinitū inteſior q̄ȝ .b. ꝯſequētia cuʒ antecedēte ſatis patet. ⁊ ꝯſequēs eſt falſum. ergo poſitio falſa.

Ideo ponatur 2ª poſitio: cōtra quaʒ arguit ſic. ↄ 2am poſitionē.
Ex h ſeq̄t ꝙ nullus gradus eſt medio gradu in duplo remiſſior: q2 nullus gradus per in duplo plus diſtat a ſummo: q̄ȝ gradus medius: vt pʒ. ꝯñs eſt falſuʒ: q2 aliqs gradus eſt alio in duplo remiſſior: ⁊ in quadruplo: ⁊ ſic in ifinitū: ſicut q̄ñtacūq̄ȝ q̄ñtitate data: eſt alia in duplo minor ⁊ alia in q̄druplo: ⁊ ſic in infinitū.
ergo ⁊c. ❡ Itē ex iſta pōne ſeq̄t ꝙ aliqua ſunt equal'r in 2m
teſa que nō ſunt equal'r remiſſa: q2 caliditas ſūma p finitū tātū diſtat a nō gradu. Capiat igit vnus mot⁹: qui per tātuʒ diſtet a nō gradu mot⁹: ſicut ipſa caliditas ſūma diſtat a nō gradu caliditatꝫ: tūc iſte mot⁹ ⁊ iſta caliditas ſunt eque inteſa: q2 equal'r diſtāt a ſuis nō gradib⁹ ⁊ nō ſunt equal'r remiſſa: q2 infinite modice remiſſa eſt aliq̄ caliditas citra ſūmū: ſʒ nullus gradus citra ſūmū eſt eque iteſus cū gradu ſūmo. igit iſta caliditas ſūma nō eſt eque remiſſa cuʒ iſto gradu motu. ſed ꝯcl'o eſt falſa: q2 oīa que ſunt equal'r magna: ſunt eque parua. igit oīa que ſunt eque iteſa: ſunt
eque remiſſa. igit ꝯcluſio falſa. ❡ Itē ex iſta pōne ſequitur 3m
vt pus ꝙ oīs gradus mot⁹ eſt ifinite remiſſus: q2 oīs gradus mot⁹ p ifi^m diſtat a gradu iteſiſſimo mot⁹. igit oīs gradus mot⁹ eſt ifinite remiſſus. ſʒ ꝯñs eſt falſuʒ. igit poſitio.
❡ Iteʒ ſeq̄t ꝙ oīs gradus caliditatis citra ſūmū eſt ifinite 4m
remiſſus: q2 caliditas ſūma eſt finite inteſa. igit finite remiſſa. pbo ꝯñtiā: q2 omne quātū finitū eſt paruū. igit per idē oīs gradus finite inteſus eſt remiſſus. ſeq̄t ergo ꝙ caliditas ſūma eſt remiſſa. Sit igit .a. vna latitudo caliditatis que per certaʒ latitudinē diſtet a ſūmo: que latitudo diuidat in ptes ꝓportionales verſus ſūmū: tūc per ifinituʒ minus diſtat aliq̄ pars a gradu ſūmo q̄ȝ diſtet .a. gradus: q2 in ifinitū ꝓpingor eſt aliq̄ iſtarū partiū gradui ſūmo. cuʒ igit remiſſio habeat attēdi penes diſtātiā a gradu ſūmo: ſeq̄t ꝙ in ifinitū minus remiſſa eſt aliq̄ pars illaruʒ q̄ȝ .a. gradus: ⁊ q̄libet illarū partiū eſt remiſſior q̄ȝ gradus ſūmus. igit ifinite remiſſus eſt .a. gradus. cōſequens eſt falſum. ergo poſitio falſa.

Ideo ponatur 3ª poſitio pro qua ſic arguitur. 3ª pō
Sicut aliqd plus diſtat a non quāto ſic dī maius. igit per idē. Sicut aliqd plus diſtat a nō gradu ſue iteſionis: ſic dī inteſius. pʒ ergo pª pars pōnis. Scda arguit ſic: remiſſio opponit inteſioni. igit ſi inteſio

bꝫ attēdi penes diſtātiā a nō inteſioni.igiť ſi iteſio bꝫ at-
tēdi penes diſtātiā a nō gradu:ſeqť ꝙ remiſſio bꝫ attēdi
penes appropinquationē ad nō gradū. ¶ Itē vel opꝫ ꝙ
remiſſio attēdať penes diſtātiā a nō gradu:vel penes di-
ſtātiā a gradu ꝑfectiſſ.mo: vel penes acceſſuꝫ gradui ꝑfe-
ctiſſimo:vel penes acceſſum nō gradui iteſionis.Sed nō
pᵐ:qꝛ penes ħ attēdiť inteſio.ğ nō remiſſio.Nec 2ᵒ modo
vt ꝓbatū eſt ṗus.Nec 3ᵒ mō:qꝛ ſicut aliqđ appropinqua
tur gradui ꝑfectiſſimo:ita diciť eē iteſius ⁊ nō remiſſius.
¶ Relinqtur ğ quart⁹modus penes qđ remiſſio gradus
attēdiť.pꝫ ğ 3ᵃ poſitio pro quacūqꝫ eius pte. ¶ Cōtra 1ᵘᶠ
ſic tñ arguiť:ex 1ᵃ ſequiť ꝙ caliditas ſūma ſit caliditas re
miſſa:qꝛ capiať caliditas ſūma que ſit.b.tunc.b.finite di-
ſtat a nō gradu latitudinis:qꝛ iter.b.⁊ nō graduꝫ eſt dare
mediū:ſꝫ nulli⁹ ifiniti eſt dare mediū.ğ latitudo calidita-
tiſ eſt ſolū finita.ꝯñia pꝫ cum minori:quia mediū eſt qđ
equalr̄ diſtat ab extremis:ſed nihil equalr̄ diſtat a gradu
ifinito ⁊ nō gradu:qꝛ a gradu ifinito omne finitū per infi
nitū diſtat:⁊ a nō gradu ſolū ꝑ finitū vt ꝯſtat.pꝫ ğ ꝙ gra-
2ᵐ dus ſūmus finite diſtat a nō gradu. ¶ Item ſic incipiat
Qꝛ latitu-do calitatiſ nō ſit infi-nita. aliqđ calidū ſūmū remitti:tūc ſi latitudo caliditatis ſit ifi
nita:ſequiť ꝙ ſubito deꝑdet latitudinē infinitā:vel aliter
nunꝙ erit remiſſum.cū igiť frigiditas eq̄uelociter itēdať
ſicut caliditas remittiť:qꝛ eq̄uelociter induceť de vno cō
trario ſicut deꝑdiť de reliq̄:vt pꝫ iuxta cōcꝫ pōnē.ğ fri-
giditas ſubito acqret latitudinē infinitā:⁊ ſic nō poſſet eē
aliqđ mixtū remiſſuꝫ.ꝯñia tenet ſicut ſi capiať aliqđ mix-
tuꝫ:tūc vel eſt vtraqꝫ qualitas finita vel vtraqꝫ ifinita: vl̄
vna finita ⁊ alia ifinita.nō pōt poni ꝙ vtraqꝫ eſt ifinita:
qꝛ tūc nullū mixtū eēt calidū neqꝫ frigidū:qꝛ nulli⁹ mixti
caliditas excederet frigiditateꝫ nec ecōtra:ſi vtraqꝫ foret
ifinita.Si vna ſit finita ⁊ alia ifinita.igiť omne tale mix-
tuꝫ foret ifinite iteſuꝫ vel nō iteſum:qꝛ vna q̄litas per in-
finitū excederet aliā.ſꝫ ꝯñs eſt falſuꝫ pro vtraqꝫ eius pte.
videlꝫ ꝙ omne mixtū foret ifinite iteſum vel nō iteſum.
Relinquiť ğ ꝙ tam caliditas ꝙ̄ frigiditas eſt ſolū finita.
¶ Tūc ſic arguiť.ponať frigiditatē mixti remitti ad nō
gradū:tūc eq̄uelociter ſicut frigiditas remitteť ſic calitas
itēdeť:⁊ eque cito deueniet caliditas ad ſūmū ſicut frigi-
ditas ad nō gradū vt ꝯſtat:qꝛ ſi ſit caliditas ſine frigidita
te ⁊ ħ per ſextā ꝙ nō ſit pars alterius ipſa eſt ſūma.ğ per
tātū diſtat cal'itas a gradu ſūmo ſicut frigiditas a nō gra-
du:⁊ per ꝯñs cuꝫ fridītas diſtat per finitū a nō gradu:ſeq
tur ꝙ iᵃ caliditas ꝑ finitū ſolū diſtat a gradu ſūmo:⁊ a nō
gradu diſtat ſolū iᵃ caliditas ꝑ finitū:qꝛ eſt remiſſa.ğ ſeq-
tur ꝙ caliditas ſūma per finitū tñ diſtat a nō gradu.Ca-
piať ğ vnus mot⁹ qui ꝑ tātuꝫ diſtet a nō gradu mot⁹ſicut
iſta caliditas ſūma a nō gradu caliditatis qui mot⁹ ſit.a.
⁊ iſta calitas.b. Qꝛ ħ ſit poſſibile ꝓꝫ:qꝛ latitudo mot⁹ eſt
ifinita:eo ꝙ latitudo ꝓportionis eſt ifinita:⁊ latitudo mo
tus cōſeqť ꝓportionē ſeu latitudinē ꝓportionis. Tūc ſic
arguiť.Remiſſio cuiuſlibet latitudis bꝫ attēdi penes ap-
propinquationē nō gradui.cum ğ.a.motus:⁊.b.caliditas
equalr̄ appropinquet nō gradui:ſeqť ꝙ.a.mot⁹:⁊.b.cali-
3ᵒ aliqn̄. ditas ſunt eque remiſſa.pꝫ ꝯña iuxta pōneꝫ. ¶ Quidā tñ
negāt ꝯñtiā:⁊ dicūt ꝙ gradus ſūmus eſt remiſſe itenſus:
ex q̄ tñ nō ſeqť vt dicūt ꝙ gradus ſūmus ſit remiſſus ⁊c̄.
ꝯ rñſionē ¶ Cōtra iſtā reſpōſionē arguiť.ex ea ſequiť iſta cōcluſio
ꝙ.a.ꝯtinue erit remiſſius.b.ante finē iſtius hore:⁊ in fine
b.erit remiſſum ſub certo gradu:⁊.a.nō erit tūc aliqualr̄
remiſſum:nulla latitudine remiſſionis ſubito deꝑdita re-
ſpectu.a.nec aliqua ſubito acquiſita reſpectu.b. ¶ Qꝛ tñ
iſta ꝯclo ſit ipoſſibilis arguiť ſic.Capiať iᵃ remiſſio quaꝫ
habebit.b.in fine illius hore:tūc iᵃ remiſſio.b.in nulla ꝓ-
portione erit minor in fine ꝙ̄ imediate ante finē.igitur ſi

imediate ante finē erit.a.remiſſius.b.⁊ in fine nō erit ali-
qualiter remiſſum.a.ſequiť ꝙ.a.ſubito perdet tātam re-
miſſionē quantā.b.habebit in fine vel maiorē.qđ eſt op-
poſitū vnius ptis ꝯñs.igiť ex vna pte ꝯclonis:ſequiť op-
poſitū alterius ptis:⁊ per ꝯñs ꝯcluſio eſt ipoſſibilis.Et ꝙ
iᵃ cōcluſio ſequať arguiť ſic.Incipiat.a.caliditas intēdi a
nō gradu:⁊ intēdať in iᵃ hora ad ſūmū:⁊ incipiat etiaꝫ.b.
mot⁹ intēdi a nō gradu mot⁹:⁊ intēdať cōtinue in duplo
velocius.a.caliditate:quo poſito ſequiť cōcluſio.naꝫ ꝙ.a.
añ finē hore ꝯtinue erit remiſſius.b.ꝓbo.remiſſio cuiuſli
bet ğdus attēdiť penes appropinq̄tionē ad nō gradū ſui
poſitiui:ſꝫ.a.cōtinue erit ꝓpinquius nō gradui ſue latitudi-
nis ꝙ̄.b.nō gradui ſue latitudinis:vt cōſtat:qꝛ.a.cōtinue
in duplo tardius recedit a nō gradu ꝙ̄.b.ergo ſequiť ꝙ.a.
cōtinue erit remiſſius ꝙ̄.b.ante fineꝫ illius hore:⁊ in fine
nō erit.a.aliqualr̄ remiſſum iuxta poſitionē:eo ꝙ tūc erit
ſūmū.Et ꝙ nullā latitudinē remiſſionis ſubito deperdet
a.arguiť ſic. Nā nullā latitudinē iten⁹ ſubito acqret.a.eo
ꝙ finite velociter intēdeť.Sꝫ deꝑdere remiſſionē nō eſt
aliud ꝙ̄ acqrere iteſionē vt pꝫ:eo ꝙ remiſſio ſe habet pri-
uatiue reſpectu inteſionis:⁊ ꝑuatiuū acqri nō eſt aliud ꝙ̄
poſitiuū deꝑdi:nec priuatiuū deꝑdi aliud eſt ꝙ̄ poſitiuuꝫ
acqri.Cū ergo nulla latitudo inteſionis ibi ſubito acqrať:
ſequiť nullā latitudinē remiſſionis ſubito deꝑdi reſpectu
a.ergo nō poterit iᵃ cōclo euitari. ¶ Ideo breuiter ꝯcedē 2ᵃ ꝑnīo. Gradꝰ ſū-mus eſt re miſſus.
da eſt cōcluſio ṗncipalis inducta cōtra iſtā poſitionē.vꝫ.
ꝙ gradus ſūmus eſt remiſſus. ¶ Cōtra iſtā rñſionem ſic
arguiť. Nō dř aliqđ remiſſum niſi reſpectu alterius intē- ꝯ rñſionē.
ſioris.Si ergo gradus ſūmus foret remiſſus:ſeqť ꝙ aliqs
gradus foret inteſior gradu ſūmo.ꝯſequēs eſt falſuꝫ:⁊ cō
ſequētia tenet ex hoc ꝙ inteſum ⁊ remiſſum dicunť rela-
tiue adinuicē:vt magnū ⁊ paruuꝫ. ¶ Itē ſic omne remiſ- 2ᵐ
ſum eſt remiſſum per admixtionē ſui ꝯtrarij poſitiui.Sꝫ
gradus ſūmus caliditatis nō admiſceť cum ſuo cōtrario.
igiť nō eſt remiſſus. ¶ Pro dictis eſt ſuſtinēda 3ᵃ poſitio Solutio
ṗncipalis.⁊ ꝯſequēter ꝯcluſio ꝙ gradus ſūmus eſt remiſ-
ſus. ¶ Et tūc quādo arguiť ꝙ nulla caliditas eſt calidita-
te ſūma inteſior.ergo iſta nō eſt remiſſa.negať ꝯſequētia:
qꝛ ⁊ ſi nulla caliditas ſit de facto inteſior:nō repugnat tñ
illi caliditati ꝙ aliqua ſit caliditas inteſior:⁊ etiā imaginā-
do caliditatem inteſioreꝫ:iſta foret remiſſa ſicut nunc eſt.
¶ Aliter pōt dici ꝙ ⁊ ſi gradus ſūmus caliditatis non ſit 2ᵃ rñſio
remiſſius reſpectu alicui⁹ caliditatis:tñ reſpectu alicui⁹al-
terius inteſi ſicut eſt mot⁹:vel aliqđ hꝫ qđ eſt iſta calidita
te inteſius:diciť iᵃ caliditas remiſſa:qꝛ eſto ꝙ nō foret ca Nota
liditas intenſa ſupra mediū:adhuc iſta caliditas foret re-
miſſa:qꝛ ita remiſſa ſicut nūc eſt: ⁊ tamē nulla foret cali-
ditas iſta caliditate inteſior:ideo iſtud argᵐ nō procedit.
¶ Ad 2ᵐ dico ꝙ nec aliqđ dř remiſſum:eo ꝙ aliqđ ſit in- Ad 2ᵐ
teſius:vel qꝛ habeat admixtionē ſui ꝯtrarij.Sꝫ aliqđ di-
ciť eē remiſſum:eo ꝙ ſit modicuꝫ:vel ſic modicū cōtinet
de inteſione. Nā capiať caliditas ſūma:tūc iᵃ caliditas cō
poniť ex ptibus q̄litatiuis:vt quātitas ex ſuis ptibus quā-
titatiuis:ſicut poſtmodū argueť.ergo caliditas ſūma in ſe
ꝯtinet caliditatē remiſſam:⁊ tñ cum nulla pte caliditatis
ſūme coextendiť frigiditas vt pꝫ:qꝛ qcqđ coextēdiť cum
pte caliditatis per totū ſūme cuꝫ tota iſta caliditate extē-
diť.ergo iſtud aſſumptuꝫ eſt falſum.ſ.ꝙ omne remiſſum
eſt remiſſum per admixtionē ſui cōtrarij: ſꝫ diciť remiſ-
ſum:eo ꝙ modicum cōtinet de inteſione:⁊ neutrum argᵐ
procedit cōtra iſtam poſitionem.

Circa iſtam poſitionē alie verſanť poſitiones.
quedā eniꝫ ponit ꝙ oīs gradus eſt Tres poſi tiones cir ca tertiaꝫ.
ita inteſus ſicut ipſemet eſt remiſſus.Scđa ponit ꝙ aliqs
gradus eſt ita inteſus ſicut remiſſus ⁊ ecōtra: ſꝫ nō quali-
bet.Tertia

bet. Tertia ponit ꝙ nūmerus gradus eſt ita intēſus ſicut remiſſus. Et ſic iſte poſitiones ponūt de intēſione ⁊ remiſſione: ita etiaꝫ ponūt de magnitudine ⁊ de paruitate: ⁊ de omni latitudine que priuatiue vel poſitiue reſpectu alterius latitudinis conſideratur. vel que dr̄. ſ. poſitiue vel priuatiue cōſideratur. ❡ Cōtra quas tres pōnes tūmma cōcernētes. ⁊ pro iſtis opinionibus arguitur ſigillatim. Et p̄ arguitur pro p̄ᵃ

Arguit p p̄ᵃ pōne. opinione ſic. Intēſio gradus attēdit penes diſtantiā a nō gradu: ⁊ remiſſio penes acceſſum ad ſuū nō gradū. Sed oīs gradus equalr̄ diſtat a nō gradu ſic ipſe eſt ꝓpinquus nō gradui: q2 nō differūt realr̄ ꝓpinquitas non gradui ⁊ diſtātia ab eodē. ſicut eadē eſt ꝓpinquitas realr̄ aliquoꝝ ad-

2ᵐ inuicē ⁊ diſtātia iter ipā. ❡ Itē ſic arguitur ꝙ eadē eſt latitudo itenˢ ⁊ remiſſionis realr̄. qḋ ſic arguitur: eadē eſt latitudo itenˢ ⁊ remiſſionis calitatis cū ipā caliditate: ⁊ quecūq; ſunt eadē cum eodē 3ᵒ ſunt eadē iter ſe per cōez animi cōceptionē. ergo realr̄ intēſio ⁊ remiſſio ſunt eadē. Maior arguitur ſic. calitas eſt itenˢ. ergo mediāte aliq̄ itēſione eſt itenˢ; vel nō mediāte itenᵉ alia ab ipſa calitate. ergo itenᵉ caliditatis

Non ꝙ h argumēto intēde p bat ꝙ itē- ſo nō diſ- ferat a re ſ- miſſo. eſt ipſa caliditas. Minor arguitur ſic: q2 ſi itenᵒ calitatis ſit alia ab iᵃ calitate. Cū ergo ipſa itenᵒ ſit itenᵃ: ſeqꝫ ꝙ itenᵒ illius itēſionis foret alia ab ipſa itēſione: ⁊ ſic eēt ꝓceſſus in iſinitū: vel ſi eēt ſtatus alicubi ſequeretur eadē rōne ꝙ eēt ſtādū in p̄mis. ſ. ꝙ p̄ᵃ caliditas cū ſua itenᵉ eſt eadē. ſꝫ cōſequēs eſt ipoſſibile. ſ. ꝙ foret ꝓcedēdū in iſinitū in itēſionibus talr̄ ordinatis: q2 tūc q̄lbet itēſum foret iſinite intēſum: eo ꝙ hēt iſinitas tales itēſiones: quaꝝ quelibet foret ipſa calitate intēſior: vel cū iſta calitate foret eque intēſa: ⁊ q̄libet iſtaꝝ foret per totū extēſa ſicut foret iſta caliditas: ſꝫ ꝯñs eſt falſū. igitur iᵒ ex quo ſeqꝫ. Et ꝙ quelibet iſtaꝝ itēſionū ſit ita extēſa ſicut iſta caliditas ꝓbatur: q2 caliditas eſt intēſa per p̄ᵐᵃᵐ iſtaꝝ itēſionū ſolū. ergo p̄ᵃ intenᵒ eſt maior iᵃ calitate: ꝯñia tenet per h ꝓpter qḋ vnūquodq; tale ⁊ illud magis. vel ſaltē ſequitur ꝙ iᵃ itenᵒ eſt ita ſicut iſta caliditas. Et ꝯſilr̄ arguitur de 2ᵃ intenᵉ reſpectu p̄me: ⁊ ſic deinceps. ergo ſequitur ꝙ illud corpus hēt tales intēſiones iſinitas: quaꝝ quelibet iſta certa data foret intēſior: ⁊ per ꝯñs ꝑ corpus hñs talem caliditatē foret infinite intēſū. Cōſequētia arguitur: q2 p̄ᵃ itenᵒ eſt cauſa itēſionis iſtiꝰ caliditatis. ⁊ 2ᵃ itenᵒ eſt cauſa p̄ᵉ itenᵒ: ⁊ quicqḋ eſt cauſa cauſe. eſt cauſa cauſati. ergo 2ᵃ itenᵒ eſt cā intēſionis illius caliditatis: ⁊ ſic de 3ᵃ intenᵉ: ⁊ de quacūq; alia reſtat arguere. igitur hic ſunt iſinite cauſe reſpectu itenᵒ illius calitatis: quaꝝ quelibet certā intēſionē cōferret ſic oēs iᵉ infinitā itēſionē cōferūt: q2 quelibet iſtaꝝ maiorē intēſionē cōferret q̄ iſta certa data. ſequitur ergo ꝙ omne intēſum foret iſinite intēſum. ꝯñs falſū ⁊ ipoſſibile. ergo iᵒ ex quo ſequitur. ſ. ꝙ intēſio

Cōfirᵉ p calitatis a caliditate differat. ❡ Itē ſi ſint iſinite tales intēſiones vel ſunt oēs eiuſdem ſpēi vel diuerſe ſpēi. ſi eiuſdē: ergo equalēt vni itenᵉ ex oībus his cōpoſite: que itenᵒ foret neceſſario iſinita. ergo iſinite oēs denoīāt iſtā caliditatē. Si ſunt diuerſarū ſpecierū. vel igitur oēs ſunt diuerſarū ſpērū: vel alique ſunt eiuſdē ſpēi: ⁊ alique diuerſe. ſi oēs ſunt diuerſarū ſpērū ⁊ oēs tales ſunt in p̄ico qualitatis: q2 p oēm talē omne nā aliqḋ quale. ergo iſinite ſunt ſpēs q̄litatū qḋ ratio nō admittit. Si alique ſint eiuſdē ſpēi ⁊ aliq̄ diuerſe ſpēi. vel ergo ſolū finite ſunt eiuſdē ſpēi vel iſinite. Si ſolū finite. ergo ſunt iſinite diuerſaꝝ ſpērū. Si iſinite ſpēs finitis addāt: oēs ex his reſultātes ſolū finite erūt. ſ. numerus ex his ſolū erit finitꝰ. Si ſunt iſinite itenſiones eiuſdē ſpēi. ergo cū per totū extēdatur ſequitur itenᵐ ex

2ᵒ his cōpoſitā fore iſinitam. ❡ Itē ſi aliqua talis itenᵒ ſit eiuſdē ſpēi cum itenᵉ ab ea denoīata intenᵒ qua rōne denoīatur ab itenᵉ eiuſdē ſpēi cum ea eadē rōne a ſeipſa denoīatur itenᵒ. ſ. ſic idē eſt itenᵒ alicuius itēſionis cū ipſa itenᵉ: ⁊ per ꝯñs pari rōne ſtādū eſt in calitate ꝙ ipſa cū ſua itenᵉ eſt eadē ſpecifice. igitur ſua itenᵒ eſt caliditas: ⁊ ſic forēt due tales calitates. Et per idē itenᵒ 2ᵉ calitatis eēt caliditas: ⁊ ſic in iſinitū. igitur cum ille caliditates nō cōicēt: ⁊ quelibet eſt eque itenᵃ cū p̄ᵃ vel itenᵐ: ſeqꝫ oēs iᵐ in iſinitū ſubiectū ſuū denoīare itenᵐ. ❡ Itē ꝙ itenᵒ caliditatis ſit

2ᵐ p̄nˢ. eadē ſpecifice cū caliditate iᵃ arguitur: q2 illa itenᵒ nō eſt in aliq̄ p̄ico q̄ in p̄ico qualitatis: vt pꝫ p ſingula diſcurrēti. Sed ſi ſit in p̄ico q̄litatis: ⁊ nulla calitas ab alia q̄litate denoīatur: q2 nec a frigiditate nec ab humiditate: ⁊ ſic de ſingulis: q2 ſi ſic ſiciat ꝙ. a. caliditas denoīet a q̄litate. b. arguitur ꝙ. b. ſit. a. q2 ſi. b. nō ſit. a. nec pars. a. ſeqꝫ ꝙ ad corruptionē. b. nō ſeqꝫ corruptio. a. vt cōſtat. Corrūpatur ergo. b. manēte. a. tūc poſt corruptionē. b. erit. a. caliditas itenᵃ ⁊ nō denoīabitur. a. b. q2. b. tūc non eriterit ab aliqua q̄litate alia a ſeipſa denoīabitur: q2 ad corruptionē. b. nō ſeqꝫ aliquā aliā qualitatē denoīare de nouo. a. igitur corrupto. b. a. denoīatur itenᵐ a ſeipſo. igitur tūc erit. a. itenᵉ ſimpliciter: ⁊ eadē rōne in p̄ncipio: q2 aliter corrupto. b. a. nō diceretur itenᵐ. cuiꝰ oppoſitū ſatis pꝫ. ❡ Itē iᵒ intenᵒ q̄litatis nō eſt qualitas p̄ᵃ que ab

3ᵐ ipſa q̄litate itenᵃ differat vt eſt argutū: q2 nulla qualitas p̄ᵃ ab alia qualitate p̄ᵒ alia a ſeipſa dē itenᵃ: nec iᵒ itenᵒ eſt qualitas 2ᵃ: q2 tūc cum q̄litas 2ᵃ reſultat ex p̄mis: ſeqꝫ ꝙ nō foret itenᵒ q̄litatis niſi vbi plures q̄litates exiſterent. cōſequēs eſt falſum. ergo illud ex quo ſeqꝫ. ergo ex his ſequitur intēſionē calitatis a calitate nō diſtingui realr̄: ⁊ ſic de omni alia q̄litate. ⁊ ꝯſilr̄ arguitur remiſſionē a qualitate remiſſa nō diſtingui realr̄. igitur ſequitur eādē eſſe realr̄ latitudinē itenᵉ ⁊ latitudinē remiſſionis. Et itenᵒ habet attēdi penes receſſū a nō gradu itēſionis. Et remiſſio habet attēdi penes ꝓpinquationē nō gradui ſue itēſionis: q2 remiſſio nō pōt attēdi penes diſtātiā a nō gradu remiſſionis: quia nō gradus remiſſionis eſt iſinite intēſionis: ſꝫ q̄libet gradus per iſinitū diſtat a nō gradu remiſſionis: q2 per infinitū diſtat a gradu iſinito itēſionis. Si ergo penes huiꝰ diſtātiā hēt remiſſio attēdi: ſequeretur oēm gradū iſinite remiſſum exiſtere. ❡ Et ſic nōn̄ eſt ꝙ ab omni gradu remiſſio-

Nota nis vſq; ad nō gradum remiſſionis eſt latitudo iſinita: et vſq; ad gradum iſinitū remiſſionis ſolū finita latitudo: q2 nō eſt aliud gradus iſinitus remiſſionis q̄ nō gradus intēſionis: ⁊ ab omni gradu vſq; ad nō gradū intēſionis eſt latitudo ſolū finita. ergo ⁊c. ❡ Ex his eſt notādū etiā

Nota ꝙ ab omni gradu remiſſionis vſq; ad ſuū duplū remiſſionis priuatiue acciꝑe remiſſionē eſt in duplo minor latitudo q̄ inter ipſum ⁊ ſuū ſubduplū remiſſionis: q2 nō eſt aliud gradus duplus remiſſionis q̄ gradus ſubduplus itenᵐ: ⁊ gradus ſubduplus remiſſionis q̄ gradus duplus intēſionis. Sꝫ ab omni gradu intēſionis vſq; ad ſuū ſubduplū eſt in duplo minor latitudo q̄ iter ipſum ⁊ ſuū duplū. ergo iter oēm remiſſionē ⁊ dupꝫᵐ ad illā eſt in duplo minor latitudo q̄ inter illā ⁊ ſuā ſubdupˡᵐ. ⁊ cōſiliter eſt de omni latitudine priuatiue ꝯſiderata: cuius oppoſitū eſt de omni latitudine poſitiua, ſi ipſam poſitiue conſideres. ❡ Ex his arguitur poſitio ſic. Si idem gradus ſit latitudo intēſionis ⁊ remiſſionis realr̄: ſequitur ipſum gradū ita intēſum ſicut remiſſum conſiſtere.

Contra iſtam poſitionē arguitur. Et p̄mo ſupponantur due cōmunes animi ꝯceptiones ab Euclide ⁊ Cāpano poſite: quarū hec eſt p̄ma. Oīum duoꝝ equaliū ad 3ᵐ eadē eſt ꝓportio ⁊ ecōuerſo. Scḋa eſt hec: ꝙ oīa que in equali ꝓportione ad aliqḋ 3ᵐ ſe habēt iter ſe ſunt equalia. ❡ Ex iſtis arguitur ſic. Sit. a. vnus gradus: ⁊. b. itenſior. a. tūc. a. eſt ita itenᵐ ſicut remiſſum iuxta poſitionē: ⁊. b. itenſius. a. ⁊ minus remiſſū q̄. a. eo ꝙ. b. eſt remotius a nō gradu itenſionis q̄. a. ergo. b. nō

eſt ita inten^m^ ſicut remiſſuz. ¶ Pro iſto videt̃ ⁊ dĩ cõiter ab oibus iſtã poſitionẽ ponẽtib⁹ negãdo ↄñiaz:⁊ ad eius ꝓbationẽ arguit̃ per p^am^ ſuppõnez:⁊ ponat̃ oppõ^m^ cõſequẽs ſtare cuz añte.⁊ arguit̃ ſic.a.eſt eque iten^m^ ſicut remiſſum.ḡ tãta eſt ꝓportio itẽſionis.b.ad itenſionẽ.a.quãta eſt ꝓportio iten^nis^.b.ad remiſſionẽ.a.ↄña tenꝫ iuxta p̃mã ſuppõnẽ pꝫ ſatis.tũc arguitur ſic ex ↄñte tãta eſt ꝓportio iten^nis^.b.ad iten^nẽ^.a.quãta eſt itẽſionis.b.ad remiſſionez a.ſꝫ itẽſio.b.ſe habet ad iten^m^.a.in ꝓportione maioris inequalitatis.ḡ iten^o^.b.ſe habet ad remiſſionẽ.a.in ꝓportione maioris ineq̃litatis.tũc arguit̃ ſic.b.eſt ita inten^m^ ſicut remiſſum ⁊ oium eq̃liũ ad 3^m^ eadẽ eſt ꝓportio.cũ ḡ iten^o^ b.ſe habet in ꝓportione maioris ineq̃litatis ad remiſſionẽ.a.ſeq̃t̃ ꝙ remiſſio.b.ſe habet in ꝓportione maioris ineq̃litatis ad remiſſionẽ.a.ↄñs falſuz.ḡ p^o^ ex quo ſeq̃t̃.ſ.poſitio ⁊ riſſio. ¶ Jtẽ ſic.ſit.c.in duplo remiſſius.a.⁊.b.in duplo itẽſius.a.⁊ arguit̃ ſic.remiſſio.c.ſe hꝫ in ꝓportione dupla ad remiſſionẽ.a.eo ꝙ in duplo minus diſtat a nõ gradu iten^m^ q̃ remiſſio.a.⁊ iten^o^.b.ſe hꝫ in ꝓportione du^e^ ad remiſſionẽ.a.per ar^m^ ↄſilẽ arg^to^ ꝑcedẽti:⁊ oia in eq̃li ꝓportione ſe hñt^a^ ad aliqḋ 3^m^ inter ſe ſunt eq̃lia per 2^m^ ſuppõnez.ḡ iten^o^.b.⁊ remiſſio.c.inter ſe ſunt eq̃les:ſꝫ remiſſio.c. eſt maior remiſſione.b.ḡ iten^o^.b.eſt maior ſua remiſſiõe. ↄña tenet ex h̃ ꝙ ſi ſint aliqua duo eq̃lia reſpectu cuiuſcũq; eſt vnũ illoꝝ maius reſpectu eiuſdẽ:eſt alterũ eorũdez maius per cõem animi ↄceptiõez.⁊ minor pꝫ.ſ.ꝙ remiſſio.c.eſt maior remiſſione.b.eo ꝙ eſt ꝓpinquior nõ gradui iten^m^ q̃ remiſſio.b.igit̃ ſeq̃t̃ ꝙ.b.eſt magis itẽſum q̃ remiſſum.⁊ per idem.c.eſt magis remiſſum q̃ iten^m^:⁊ ſic vlr ſi aliqḋ ſit eque remiſſum ſicut iten^m^:omne eo itẽſius eſt magis iten^m^ q̃ remiſſum:⁊ omne eo remiſſius eſt magis remiſſuz q̃ iten^m^.igit̃ iſta poſitio falſa. ¶ Jtẽ oia ar^ta^ que fuũt ↄtra põnez primã ſequẽtẽ ſunt ↄtra iſtã põnem vt pꝫ:qꝛ ꝓbãdo ꝙ nil ſit ita iten^m^ ſicut remiſſus.ſatis ꝓbatur ꝙ nõ ois gradus ſit ita intẽſus ſicut remiſſus.

Pro 2ª pōne p. **Pro ſecũda** poſitiõe ſic arguit̃.Capiat̃ aliqs gradus qui ſit.a.tunc ſi.a.ſit intẽſior q̃ ipſemet ſit remiſſus:ponat̃.a.remitti ad nõ gradũ:tũc ex quo iten^o^ remittet̃ ad nõ gradũ ⁊ remiſſio ītedat̃ ad infinitũ:ſeq̃t̃ ꝙ aliqñ erit remiſſio tãta ſicut pñc erit i^o^ iten^o^

2º eo ꝙ nũc eſt maior iten^o^ q̃ remiſſio. ¶ Jtẽ ſic capiat̃ gradus me^o^ inter itẽſionẽ ⁊ remiſſionẽ:⁊ ſeq̃t̃ ex quo ita velociter maiorabit̃ remiſſio ſicut minorabit̃ iten^o^:qꝛ non eſt aliud remiſſionẽ maiorari q̃ iten^em^ remitti.ḡ in i^o^ inſtãti in quo iten^o^ erit ſub i^o^ gradu medio erit ⁊ remiſſio ſub eodez gradu.Silr ſi intẽſio ſit minor q̃ remiſſio intẽdat̃ infinitũ:⁊ ſeq̃t̃ ꝙ aliqñ erit ita iten^m^ ſicut remiſſum ꝑ arg^m^ ꝑfa^m^.ḡ p^a^ pars illi^o^ videt̃ eẽ vera. ¶ Pro 2° pte illi^o^ poſitionis arguit̃ per arg^ta^ que ſunt facta ↄtra poſitiones ꝑcedẽtem:ſcilꝫ ꝙ nõ ois gradus ſit ita intẽſus ſicut remiſſus.

3 pōnes Jdeo cõtra i^am^ poſitionẽ arguit̃. Primo ↄtra p̃mã ptez:⁊ ponat̃ ꝙ ſi ſit poſſibile ꝙ.a.ſit ita iten^m^ ſicut remiſſum:⁊ capiat̃ intẽſio equalis intẽſioni.a.que ſit.b:⁊ pono.a.vniformiter remitti ad ſubduplũ:ita ꝙ remiſſio eius que ſit c.maiorẽt̃ vniformiter ad duplũ:quia per poſita idez eſt: remiſſionẽ vniformiter maiorari ad duplũ:⁊ intẽſionem vniformiter deperdi ad ſubduplũ.⁊ ponat̃ ꝙ eque ꝓportionabiliter maiorẽt̃.b.inten^o^ ſicut.c.remiſſio:quo poſito ex quo.c.vniformiter maiorabit̃ ad duplũ:⁊ remiſſionez vniformiter maiorari ad duplũ eſt iten^em^ vniformiter remitti ad ſubduplũ.ergo iten^o^.a.vniformiter remittit̃ ad ſubduplum.⁊ per ↄſequẽs in medio inſtãti erit iten^o^.a.in ſexqaltero remiſſior q̃ nunc eſt:vt ſi nũc ſit iten^o^ vt.iiij.ſi vniformiter remittit̃ ad ſubduplũ in iſtãti medio erit vt 3.⁊ per ↄſequẽs erit in inſtãti medio in ſexqaltero minor q̃ nunc eſt:⁊ ꝓportionabilr ſicut intẽſio erit minor:ſic remiſſio erit maior:ꝗa idem eſt eẽ in ſexqaltero remiſſius ⁊ in ſexqaltero minus intẽſum.ergo in medio inſtãti erit remiſſio.a.in ſexqaltero maior q̃ nunc eſt.⁊ ꝓportionabilr ſicut.c.remiſſio erit maior:ſic.b.intenſio erit maior:eo ꝙ eque ꝓportionabilr maiorabũtur.c.ſicut.b.ergo in inſtãti medio erit.b.intẽſio in ſexqaltero maior q̃ nũc eſt.ↄſequẽs falſum vt ꝓbabo ⁊ caſus eſt poſſibilis.igit̃ cõcluſio falſa. ¶ Falſitas ↄñtis arguit̃ ſic.b.eſt vnum poſitiuũ qḋ vniformiter maiorabit̃ ad ſuũ duplũ.ergo in inſtãti medio erit in ſexqaltero maius q̃ nũc eſt:⁊ nõ in ſexquialtero maius.ↄſequẽtia tenet de omni latitudine poſitiua:vt ſatis liquet:vt ſi nũc ſit.iiij.⁊.viij.eſt poſitiue duplum ad q̃tuor:ſi quatuor vniformiter maiorabit̃ ad ſuum duplũ vniformiter maiorabit̃ ad.viij.⁊ per ↄſequens in medio erit vt ſex:⁊ gradus vt ſex eſt in ſexqaltero maior q̃ quatuor.igit̃ ſi.b.poſitiuũ vniformiter maiorabit̃ ad ſuũ duplũ in medio iſtãti erit in ſexqaltero maius q̃ nũc eſt:⁊ ꝑ ↄſequẽs nõ ſexqaltero preciſe maior.⁊ ꝙ ſequit̃.b.maiorari vniformiter ad duplũ arguit̃ per 3^am^ ſuppõnez que eſt:ꝙ oia duo.ſe habẽtia ad 3^m^ in eadẽ ꝓportione inter ſe ſunt eq̃lia:⁊ ſit.d.gradus ſub quo nũc ſunt.b.c.⁊ ar^r^ ſic.c. b.ſunt nũc ſub.d.gradu:⁊ ꝓportionabilr ſicut.b.erit maius q̃ nũc eſt:ſic.c.erit maius q̃ nũc eſt.ergo tãta cõtinue erit ꝓportio.c.ad.d.ſicut.b.ad.d.ↄſequẽtia tenet per hoc: Si equalib^9^ equalia addãtur/reſultãtia erũt equalia:qꝛ igit̃ ꝓportiones.c.ad.d.⁊.b.ad.d.nũc ſunt equales ⁊ eque ꝓportionabilr maiorabit̃.c.ſicut.b.igit̃ equalẽ ꝓportionez acqret.c.ſupra.d.ſicut.b.ſupra.d.qꝛ preciſe per tãtuꝫ maiorabũtur.c.b.ergo tãta ↄtinue erit ꝓportio.c.ad.d.ſicut.b.ad.d.⁊ oia in equali ꝓportione ſe habẽtia ad aliqḋ 3^m^ īter ſe ſunt equalia.ergo.c.b.ↄtinue erũt equalia:⁊ per ↄſequẽs tãtũ ↄtinue addet̃.b.ſicut c.⁊ ecõuerſo.per hoc ſi equalib^9^ equalia addãtur:reſultãtia ſunt equalia.ſequit̃ ḡ ꝙ ex quo.b.c.cõtinue erũt equalia ꝙ equevelociter maiorabitur.b.cũ.c.⁊.c.vniformiter maiorabit̃ ad du^m^ per caſuz.ergo.b.vniformiter maiorabit̃ ad ſuũ du^m^:⁊ per ↄſequẽs in iſtãti medio erit.b.in ſexqaltero maius q̃ in principio.Et ex poſitione cum caſu ſequit̃ ꝙ in inſtãti medio erit.b.in ſexqaltero maius q̃ nũc.ex poſitione ḡ ſeq̃t̃ cõtradictio ⁊ caſus eſt poſſibilis põni nõ repugnãs:vt ſatis ↄſtat.igit̃ poſitio iſta falſa eſt:qꝛ ex iſta põne ſequit̃ ꝙ in iſtãti medio erit.b.intẽſius q̃ ipſummet:tunc erit inten^m^.

¶ 2º ↄtra põnez illã arguit̃:ex i^a^ ſeq̃t̃ iſta ↄcl̃o ꝙ iten^e^ remiſſa ad non gradũ remiſſio ꝑciſe maiorabit̃ ad du^m^. Cum iſta ſit falſa arg^r^ ſic ꝓpor^e^ ſic iten^o^ erit minor:ſic remiſſio erit maior ꝑ par^m^:eo ꝙ ꝓportio ſic aliqḋ ſit minus iten^m^ ſic ſit ipſum remiſſius.ſi igit̃ iten^o^ remittat̃ ad nõ gradũ remiſſio maiorabit̃ i infi^m^.ḡ ↄcl̃o falſa.Et ꝙ iſta ↄcl̃o ſeq̃tur arguit̃ ſic.ſit.a.vt ꝑus eque itẽſuz ſicut remiſſuz:cuius itẽſio remittat̃ ad nõ gradũ:⁊ ſit eius remiſſio.c.⁊.b.iten^o^ equalis.a.que itẽdat̃ equalr ſicut.a.remittit̃:quo poſito ſequit̃ ꝙ iten^o^.a.remittit̃ vſq; ad nõ gradũ.⁊ ꝙ eius remiſſio ſolũ itendit̃ ad du^m^ arguit̃ ſic.c.⁊.b.ↄtinue eq̃uelociter maiorabũtur:qꝛ ita velociter ſicut.a.remittet̃:ſic velociter maiorabit̃ ei^o^ remiſſio:qꝛ nõ eſt a^a^ remiſſionez maiorari niſi iten^nem^ remitti per ꝑus ar^m^:ſꝫ ita velociter intẽdet̃.b.ſicut a.remittet̃.ergo ita velociter.b.itẽdet̃ ſicut.c.maiorabit̃:cũ igit̃.b.c.nũc ſint equalia:ſeq̃t̃ ꝙ ↄtinue erũt eq̃lia.Sit igit̃.d.gradus ſub quo nũc ſunt.b.c.⁊ ſequit̃ ꝙ ex quo.b.c. ↄtinue erũt equalia inter ſe:ꝙ eorũ ad.d.quod eſt 3^m^ cõtinue erit eadem ꝓportio:per hoc ꝙ oium duoꝝ equaliũ ad 3^m^ eadẽ eſt ꝓportio.cum igit̃ nunq̃ ante finẽ remiſſionis toti^9^.a.ad nõ gradũ ſit dupla ꝓportio.b.ad.d.ſeq̃t̃ ꝙ nunq̃ ante finẽ erit dupla ꝓportio.c.ad.d.⁊ nũc eſt.c.ſub d.gradu:

a.gradu:nec ante finē erit ſub gradu duplo intenſiori.d.
gradu.igit̄ remiſſio.a.preciſe fiet in duplo maior ꝙ̄ nunc
3° eſt:ſequit̄ ergo ꝯclo.℄ Tertio ad idē ſic arguit̄ ꝓbando
ipſaʒ fore falſum.naʒ ex ipſa ſequit̄ iſta ꝯcluſio ꝙ.b.intē
ſio per intenſionē finitā ſolum in tpe finito intēderetur in
infinitū.que ꝯn̄s arguit̄ eſſe falſa.Si.n.aliqđ poſitiuū in
infinitū intēderet̄ in tpe finito ſequeret̄ eius intenſionem
me^{te} qua intēderet̄ infinito gradui correſpōdere:q2 a nul
lo gradu finito pōt latitudo infinita in tpe finito acqri vt
ſatis pʒ.ergo ꝯcluſio falſa ⁊ poſſi̇s. Et ꝙ iſta ſequatur ex
poſitione illius arguit̄ ⁊ ponat̄.a.eque intenſum eſſe ſicut
remiſſuʒ ſicut ponit hec poſitio eē poſſibile: ⁊ remittat̄.a.
ad nō graduʒ cuius remiſſio ſit.c.⁊ ſit.b.intenſio ſub eodē
gradu vt prius ſub quo eſt.a. ⁊ intendat̄.b.eque ꝓportio
naliter ſicut.c.maiorat̄:⁊ ſit.d.gradus ſub quo nunc eſt.a.
vt prius:quo poſito.c.maiorabit̄ in infinitū:q2 intenſio.a.
remittet̄ in infinitū: ⁊ eque ꝓportionabilr ſicut intenſio
a.erit minor:ſic remiſſio.c.erit maior. igitur in infinitum
maiorabit̄.c.nunc ſic.b.c.nunc ſunt equales ⁊ eque ꝓpor^{r}
maiorabunt̄.ergo per primū arg^{m} cōtra iſtaʒ poſitionem
equeuelociter maiorabunt̄:ſed.c.ſolū finite velociter ma
iorabit̄.igitur.b.ſolum finite velociter maiorabit̄.Pona
tur ergo gratia exēpli ꝙ.a.in hora ſic remittat̄ ad nō gra
dum:⁊ ſequit̄.b.per totā illam horā ſoluʒ finite velociter
intendi.Et ꝙ.b.in illa hora in infinitū intendat̄,ꝓbo ſic.
in infinitū erit.c.remiſſio maior ꝙ̄ nunc eſt:eo ꝙ.a.remit
tetur ad nō graduʒ ⁊ ꝓpor^{r} ſicut.c.erit maius ꝙ̄ nunc eſt:
ſic.b.erit maius ꝙ̄ nunc eſt per caſum.ergo.b. in illa hora
intenderet̄ in infinitum.igit̄ ſequit̄ ꝯcluſio.℄ Aliter ad
ꝯcluſionē eandem ſic arguit̄: ⁊ ponat̄ de.a.c.d.vt prius.
ponantur tamē preciſe.b.equeuelociter intendi ſicut.a. re
mittetur.⁊ pʒ.b.ſolum finite velociter intēdi.Et ꝙ.b.intē
detur in infinitū arguit̄ ſic.c.intendet̄ in infinitū ⁊ ꝓpor^{r}
ſicut.c.erit maius.ſic.b.erit maius.ergo.b. intēdet̄ in ifi^{m}.
ꝯn̄a tenet. ⁊ maior ſilr:⁊ minor arguit̄ ſic.c.equeuelociter
maiorabit̄ ſicut.a.remittet̄ per prear^{m}.⁊.b. etiaʒ equeue
lociter maiorabit̄ ſicut.a.remittetur.ergo.b.⁊.c. continue
equeuelociter maiorabunt̄.⁊ per ꝯſequēs ꝯtinue erunt
equalia per hoc ſi equalib^{9} equalia addantur: reſultantia
erunt equalia:tūc arguit̄ ex ꝯn̄te.b.c.ꝯtinue erunt equa
lia:⁊ omniū equaliuʒ ad 3^{m} eadem eſt ꝓportio. ergo conti
nue.b.ſe habebit in equali ꝓportione ad.d. ſicut ſe habe
bit.c.ad.d.ſed ꝓportio.c.ad.d.maiorabit̄ in infinitū per
preargu^{m}.igitur ꝓportio.b.ad.d.maiorabit̄ in infinitū.ſed
hoc nō poteſt fieri.b.nō maiorato in infinitū. igit̄ ſequit̄
ꝙ.b.in i^{a} hora maiorabit̄ in infinitū ⁊ me^{te} ſolum finita
intenſione.ergo ſequit̄ ꝯcluſio impoſſibilis ex i^{a} poſitiōe
cū caſu poſſibili eidē poſitioni nō repugnanti:q2 omnis
motus ⁊ etiā omnes qualitates eadē velocitate ⁊ eque ꝓ
4 portionabilr poſſunt intendi.℄ Item ex poſitione poteſt
argui oēm graduʒ remiſſionis infinite remiſſum exiſtere:
vel infinite mo^{te} remiſſum.⁊ ponat̄ caſus penultimus de
a.b.c.d.⁊ arguit̄ vt prius.remiſſio.c.in infinitū intendet̄.
⁊.b.eque ꝓpor^{r} ꝯtinue maiorabit̄ cum.c.ergo.b.in infini
tum intendet̄.⁊ per ꝯſequēs.b.acquiret latitudinē infi
nitam.⁊.c.eque ꝓpor^{r} ꝯtinue maiorabit̄ cum.b.igit̄ per
perarg^{m} tantā latitudinē acquiret.c.ſicut.b. ⁊ per ꝯſequēs
c.acquiret latitudinē infinitā ⁊ nō acquiret maiorem re
miſſionē ꝙ̄ eſt inter ipſuʒ ⁊ graduʒ infinitū remiſſionis.
igit̄ inter.c.⁊ gradum infinitū remiſſionis eſt latitudo in
finita:⁊ per ꝯn̄s.c. per infinitū diſtat a gradu infinito re
miſſionis:⁊ etiā per ifinitū diſtat a nō gradu remiſſionis:q2
per infinitū diſtat a gradu infinito intēſionis: qui eſt non
gradus remiſſionis.Cū igit̄ remiſſio.c. penes appropin
quationē nō gradui intenſionis:vel gradui infinite remiſ

ſionis qui idē ſunt hēat attēdi cū.c.per ifinitū diſtat ab hꝫ
gradu ifinito remiſſionis:ſeqt̄.c.fore infi^{m} modice remiſ
ſuʒ: ⁊ ſi remiſſio hēat attēdi penes diſtāciā a nō gradu re
miſſionis q eſt gradus ifinite intēſionis cū i^{a} la^{do} ſit ēt ifi^{ta}:
ſeqt̄.c.fore ifinite remiſſuʒ:⁊ ſicut arguit̄ de.c. ita de quo
cūq3 alio gradu illius lati^{tudi}s eſt arguendū. igit̄ qlʒ gradus
illi^{9} lati^{s} eſt ifinite remiſſus:vel ifinite mo^{te} remiſſus.ꝯn̄a
ſlm.igit̄ i^{a} pō ꝙ̄tū ad ꝓmā pte̅ iprobat̄.℄ Cōtra 2^{am} pte̅
ſunt ar^{ta} que pro ꝓma ꝯōne ſunt adducta ⁊c̄.

Sequitur ꝙ 3^{a} pō ponēs ꝙ nullus gradus eſt ita in
tenſus ſic̄ remiſſus.Pro cu^{9} ꝓbatiōe ſunt
oīa ar^{ta} q̄ ſunt ꝯ ſcđaʒ pōneʒ que illā pōneʒ vident̄ ſuffi
cienter approbare.℄ Cōtra ēt iſtā pōnem ſunt oīa ar^{ta} q̄
pro alijs pōnib^{9} ſūt adducta.vn̄ iſta eſt i^{a} quā inter ceteras
reputo magis verā.℄ Pro cu^{9} intellu eſt ꝓ notādū ꝙ re
miſſio pōt 2^{r} ꝯſiderari.Uno^{o} vt eſt ille gradus intēſus vel
vt eſt i^{a} inten^{s}:⁊ ſic eſt idē realr intēſio cum remiſſione vt
argutū eſt.Alio^{o} ēt ꝯſiderat̄ remiſſio vt eſt ꝓuatiuū re^{n} in
tenſionis.ꝓmo^{o} ſunt i^{a} eadē ꝗ eſt ſic remiſſuʒ:⁊ ꝗ eſt ſic in
tenſuʒ:⁊ illo^{a} loquēdo pōt ꝯcedi ꝙ remiſſio hʒ attendi pe
nes id penes qđ hʒ iten^{s} attēdi:⁊ ſic pōt dici oēʒ g^{m} ita in
ten^{m} ſicut remiſſuʒ ꝯſiſtere ꝯ quē moduʒ loquēdi rōnes ꝯ
ꝓmā pōneʒ nō ꝓcedūt:ille tn̄ modus nō multū vſitat^{9}:iō
loquēdū eſt de remiſſione ſcđo mō dicta.ſ.put eſt qđ ꝓua
tiuū re^{n} iten^{s}:⁊ doʒ eſt ſm i^{m} modū nulli^{9} g^{9} intēſionē ſue
remiſſioni correſpōdere ſicut ar^{ta} ꝯ alias pōnes ꝓbāt ligde.

Sed quia iſtā pōneʒ narrare nō ſufficit: iō ad ar^{ta}
que vident̄ i^{am} pōneʒ iprobare ꝓmit^{9} eſt
videndū.℄ Et ꝓ ad rōnē qua ar^{r} ꝙ aliqs gradus ſit ita in
tenſus ſic̄ remiſſus vt ſit.a.vn^{9} gradus:⁊ tūc ar^{r} ſic.vel eſt
a.magis intēſuʒ ꝙ̄ remiſſuʒ:vel min^{9} inten^{m} ꝙ̄ remiſſum.
Si ſit magis intēſuʒ ꝙ̄ remiſſuʒ ponat̄.a. remitti ad non
g^{m}:ſe^{r} ꝙ aliqñ erit ita iten^{m} ſic̄ remiſſuʒ. Si ſit min^{9} iten^{m}
ꝙ̄ remiſſuʒ ponat̄ itenſionē intēdi in ifi^{m}:⁊ ſe^{r} ꝙ aliqñ erit
ita inten^{m} ſicut remiſſuʒ. Ideo pro i^{o} ar^{to} dī ꝙ poſito ꝙ.a.
ſit inten^{m} ꝙ ſua inten^{o} nec eſt maior nec eſt minor ſua re
miſſione nec eſt ſibi eq̄lis:acci^{do} ꝓuatiue remiſſionē re^{n} in
ten^{o}.Si.n.foret maior vl̄ minor poſſet eē eq̄lis cui^{9} opp^{m}
eſt ꝓbatū.vn̄ ſicut dī de ꝓpor^{e} maioris ieq̄litatis ⁊ ꝓpor^{e}
minoris ineq̄litatis:ꝓportiōes nō differūt realr niſi tm̄ ſʒ
rōneʒ:ſicut via ab.a.ad.b.⁊ eā a.b.ad.a.eadē eſt ſʒ rem:
differūt tn̄ ſm rōneʒ.Conſilr hitudo maioris ad minus:⁊
hitudo minoris ad ma^{9} ſunt eadē ſm reʒ: differūt tn̄ ſm
rōneʒ ſeu ſm reʒ:ſunt eadem ſola rōne differētes.Conſilr
hitudo maioris ad minus ⁊ minoris ad maius ſunt eadē
ſm reʒ ſola rōne differētes:⁊ hitudo maioris ad min^{9} eſt
ꝓpor^{o} maioris ineq̄litatis:⁊ hitudo minoris ad maius eſt
ꝓpor^{o} minoris ineq̄litatis:ideo i^{e} ꝓportiōes ſoluʒ ſm rō
nem differūt:⁊ ꝓportio maioris ineq̄litatis nō eſt maior
nec minor ꝓpor^{e} minoris ineq̄litatis: diſtin^{do} ꝓportioneʒ
maioris ineq̄litatis ꝯ ꝓportionē minoris ieq̄litatis:vt ve
nerabilis magiſter Thomas d Berduerdino in ſuo libro
de ꝓportionib^{9} ligde declarat:fundando ſe ſup ſuppōni
bus ⁊ paſſim ꝑcia.ſ.ꝙ oiuʒ duoꝝ ineq̄liuʒ ad 3^{m} ⁊c̄.Dia ſe
hītia in eq̄li ꝓpor^{e} ⁊c̄.Cōſilr dico:ſicut dcm̄ eſt de ꝓpor^{e}
maioris ineq̄litatis ⁊ minoris ineq̄litatis:ſic dicēdum eſt
de inten^{e} ⁊ remiſſione:diſtinguēdo inten^{em} ꝯ remiſſioneʒ
acci^{do}.ſ.remiſſionē ꝓuatiue re^{n} intēſionis:⁊ ſic ꝓpor^{r} dōm
eſt de magnitudine ⁊ paruitate:⁊ de oībus quoꝝ vnū ꝓi
uatiue re^{n} alterius ſe hʒ:ſeu de oī latitudine poſitiue ⁊ pri
uatiue ꝯſiderata:ꝙ ſi poſiti^{m} ⁊ ꝓuatiuū vt ſic capiantur:
nulla ꝯparatio eq̄litatis vl̄ ineq̄litatis inter i^{a} poterit re
periri:⁊ ſic dicēdū eſt ꝙ nullius inten^{o} remiſſione eiuſdem
gradus eſt maior vel minor vel eq̄lis:ſicut nulla ꝓportio
maioris ineq̄litatis eſt maior nec minor ꝓportiōe minoris

Tertia pō. inter alias verior.

Remiſſio dupl'r conſideratur.

Ad argumenta ſcđe pōnis.

Intēſio remiſſiōi nō eſt compa rabilis ſʒ equale vel inequale nec ꝓportionū pc...

ine q̄litatis:nec ei equalis. ⁊ ideo cū ponit̄ q̄ a. ſit vnuz in ten^m:⁊ querit̄ vtrū a. ſit magis intēſuz q̄ remiſſuz vel mi nus inten^m q̄ remiſſuz: vel poſſit eē ita inten^m ſicut remiſ ſum:nec^a eſt diuiſio pro quacūq̄ eius pte: ⁊ ſic nō pcedit

Ad argu-
mēta p̄ne
pōnis.

p^a ar^m ꝯ i^{us} pōnez. ❡ Jō ad arg^a que fuit pro p^a pōne ⁊ ꝯ illaz pōnez q̄n arguit̄ q̄ remiſſio attēdit̄ penes appropin quatiōnē nō g^{us} inten^{is} ⁊ intēſo attēdit penes diſtātiā: ſed tanta eſt diſtātia ſicut ppīnq̄tas cuiuſcūq̄ gradus ad nō gradū:q̄ eadē eſt realr̄ diſtantia i^a cū hꝫ ꝓpinqtate. igit̄ ois g^a eſt ita intēſus ſicut remiſſus. Jdeo di q̄ ppīnq̄tas i^a pōt accipi priuatiue re^a diſtātie:⁊ ſic accipiēdo ppinq̄tates

Nota ꝑpī
quitas nō
gradu in-
tenſiōis
priuatiue ſe
hꝫ reſpcū
diſtātie ab
eodem nō
gradu.

priuatiue attēdit̄ remiſſio penes ppinquitatez nō gradu: ⁊ acci^{do} diſtantiā poſitiue a nō gradu: tunc penes illaz atten ditur intenſio gradus: ſed ſic accipiēdo ppinq̄tatē alicui^s nō gradui i^a ppinquitas nō eſt tanta ſicut diſtātia eiuſdē gradus a nō gradu: nec ea maior nec minor, q̄uis realiter eēdez res ſit ppinquitas ⁊ diſtātia vt p̄dictū eſt de ol priua tiuo reſpectu ſui poſitiui. Et ideo ar^m nō arguit remiſſionē equalez intēſioni. nec vnā caꝫ a^a maiorē cōſiſtere: q̄ ppro pinquitas nō gradui ⁊ remiſſio que penes eā attenditur: ⁊ diſtātia a nō gradu penes quā attēdit̄ intēſio: vt p̄cuſſuꝫ eſt ſm equalitatē vl̄ inequalitatē cōparabiles nō exiſtūt eo q̄ ppinquitas vt ſic reſpectu diſtātie accipit̄ priuatiue: ⁊ tunc ad i^a arg^m cuꝫ arguit̄ q̄ eadez realr̄ eſt intenſio cū remiſſione. igitur i^a gradus eſt ita intenſus ſicut remiſſus. negat̄ p̄ña: q̄ idem eſt realr̄ ppoꝛtio maioris inequalita tis cū ppoꝛtione minoris inequalitatis: ⁊ tñ diſtinguendo vnaz ab alia ſm rōnes, neutra alteri eſt equalis: ſed incō parabiles ſunt q̄ de intēſione ⁊ remiſſione ⁊ de quocūq̄ priuatiuo cū ſuo poſitiuo ppoꝛ^r eſt dicēdum. Et ſic ſoluū tur oīa ar^{ta} que ſunt facta cōtra illam pōnez: q̄ oīa fundā tur ſuper hoc q̄ i^d penes qđ attēdit̄ remiſſio alꝫ penes qđ attendit̄ intenſio ſm equalitatē ⁊ inequalitatē cōparari: qđ tñ vt remiſſio penes i^d attendit̄: vniſoꝛ^r eſt negādū.

Dubitatio
nes dure
in ꝯ parte
tē. p̄ma.
2^a
3^a

His ergo cōpletis poſitionib^9 in iſta mā̄ reſtat vlte rius dubitādū. Primo ꝯ ex vniformi de perditione intenſionis ſequat̄ vniformis acquiſitio remiſ ſionis. ❡ Scd̄o vtrū eque ppoꝛ^r ⁊ equeuelociter ma ioretur remiſſio ſicut intenſio minorat̄. ❡ Tertio: nūqd ſi a nō gradu remiſſionis incipiāt aliqua duo equeuelociter cōtinue acq̄rere de remiſſione cōtinue manebūt eque remiſſa.

Cōtra p̄i
mam.

❡ Contra p̄mū ſic arguit̄. Ponat̄ a. vniformiter deperdere intenſionē ad ſubduplū g̃ra arg^{ti}: ⁊ arguit̄ q̄ remiſſio nō vniformiter acq̄ret: q̄ ppoꝛ^r ſicut intēſio erit minoꝛ: ſic remiſſio erit maioꝛ: eo q̄ ppoꝛ^r ſicut aliqd eſt g^a minus intenſuꝫ: ſic eſt remiſſius eodez. Sed ſi intenſio vniformiter remitteret̄ ad ſubduplū in inſtāti medio erit in ſexquialtero h^{us} q̄ in fin^e: vt ſi nūc ſit vt q̄tuoꝛ: ⁊ vnifoꝛ miter remittat̄ ad duo in inſtanti medio erit vt tria ad q̄ quatuoꝛ in ſexquialtera ppoꝛtione ſe hñt. Cū igit̄ ppoꝛ^r maioret̄ remiſſio ſicut intēſio minorat̄, ſequit̄ q̄ in inſtā ti medio remiſſio p̄ciſe in ſexquialtero erit maioꝛ q̄ in pn cipio: ⁊ per ꝯñs veloci^9 maioꝛabit̄ in ſcđa medietate tpis q̄ in p^a: ⁊ p ꝯñs nō vniformiter. ꝯña tenet: vt ſi nūc ſit re miſſio vt nouē ⁊ maioretur ad ſuum du^m qđ eſt. xviij. ſi in inſtāti medio erit in ſexquialtero maioꝛ p̄ciſe q̄ nunc eſt: ſequit̄ q̄ in inſtāti medio erit vt. xij. eo q̄. xij. ad. ix. eſt pꝛo poꝛtio ſexquialtera: ⁊ per ꝯñs in prima medietate ſui tpis non acq̄ret niſi 3^a: eo q̄. xij. nō excedunt. ix. niſi per 3^a: ⁊ in toto tpe in quo maioꝛabit̄ ad. xviij. acq̄ret. ix. eo q̄. xviij. excedunt. ix. per. ix. igit̄ ſequit̄ q̄ in ſcđa medietate illius tpis acquiret. vi. ⁊ ſic plus acq̄ret in ſcđa medietate tpis q̄ in p̄ma: ⁊ per ꝯñs nō vniformiter maioꝛabit̄. igit̄ pars

Ad partē
affirmatiuam.

affirmatiua iſtius dubitatiōis eſt falſa. ❡ Nunc q̄ arguit̄ partē affirmatiuā foꝛe verā ſi vniformiter deperdet̄ intē ſio vniformiter remittet̄ illud qđ illaz intenſionē deꝑdet: q̄ ex quo remiſſio reſpectu intēſionis ſe hꝫ priuatiue, non eſt aliud vniformiter remitti q̄ vniformiter deꝑdere in tenſionē: ⁊ ſi vniformiter remittit̄ intēſio, vniformiter acq̄ retur remiſſio: q̄ nō eſt a^d aliqd vniformiter acq̄rere re miſſionē q̄ vniformiter remitti. ergo ſi vniformiter deꝑ datur intenſio: vniformiter acq̄rit̄ remiſſio: q̄ acq̄rere re miſſionē nō eſt aliud q̄ deperdere intēſionē. ideo iſta du bitatio vi eē pro pte affirmatiua vera.

Ad ſcđaꝫ
dubitatio-
nē pro pte
affirmatiua.

Ad ſecūdam dubitationē arguit̄. Et pbat̄ p̄ma pars a^{ne}. ſ. p̄ma pars illius dubita tionis primo arguit̄. ſ. q̄ eque ppoꝛtionabilr̄ maioꝛat̄ re miſſio ſicut intenſio minoꝛatur: quia ppoꝛ^r ſicut intenſio alicui^9 eſt minoꝛ, ſic ipſuꝫ eſt remiſſius: vt conſtat per p̄cedē^{te}. ⁊ ppoꝛ^r ſicut totū eſt remiſſius: ſic ſua remiſſio eſt maioꝛ vt pꝫ. igit̄ ppoꝛtiōabilr̄ ſicut intenſio eſt minoꝛ: ſic remiſſio eſt maioꝛ: imo ſemp ſicut poſitiuū eſt min^9, ſic eſt maius ſuū priuatiuū. ergo p̄ma pars eſt vera. ❡ Pro ſcđa parte etiā eſt arg^m. nam ſicut intenſio minoꝛat: ſic totum remittit̄ vt pꝫ: ⁊ ſicut totū remittit̄: ſic velociter maioꝛat̄ remiſſio. ergo ita velociter maioꝛat̄ remiſſio ſicut intēſio minoꝛat̄: ⁊ ſequit̄ iſta dubitatio q̄tū ad pte affirmatiuā.

Ad ptem
negatiuā.

❡ Ad pte negatiuā ſic arguit̄. Si intēſio remittat̄ vnifoꝛ miter maioꝛē ppoꝛtionē deꝑdet in ſcđa medietate tpis q̄ in p^a: q̄ ſi nūc ſit vt q̄tuoꝛ ⁊ remittat̄ vnifoꝛ^r ad duo: in p^a medietate remittet̄ ſolum ad 3^a. igit̄ in p^a medietate ſolum deperdet ppoꝛtionem ſexquialterā: ⁊ in 2^a medietate de pdet ppoꝛtionez ſexquialterā que eſt a 3^{bus} vſq̄ ad duo. g̃ maioꝛē ppoꝛtionē deꝑdet inten^o in 2^a medietate tpis q̄ in p̄ma. Sed ſi remiſſio equeuelociter maioꝛaret̄ ſicut inten^o remittit̄. ergo ſi inten^o vnifoꝛ^r remitteret̄: remiſſio vnifoꝛ miter maioꝛabit̄: ⁊ ſi remiſſio vniformiter maioꝛabitur maioꝛē ppoꝛtionē acq̄ret in p^a medietate tpis q̄ in ſcđa per hoc q̄ eq̄lis exceſſus plus addit de ppoꝛtiōe reſpcū minoris q̄ reſpcū maioris. ſequit̄ igit̄ q̄ ſi inten^o maioꝛez ppoꝛtionē deperdet in 2^a medietate tpis q̄ in p^a: ⁊ remiſ^o maioꝛē ppoꝛtionē acq̄ret in p̄ma medietate tpis q̄ in 2^a: q̄ nō eque ppoꝛtiōabilr̄ maioꝛat̄ remiſſio ſicut minoꝛat̄ inten^o. Sed ſi vniformiter ⁊ equeuelociter minoꝛet̄ inten^o ſicut maioꝛat̄ remiſſio: ſeq̄t̄ q̄ ſi inten^o vnifoꝛ^r minoꝛet̄: q̄ remiſſio vnifoꝛ^r maioꝛet̄. Ex quo ſeq̄t̄ q̄ non eque ppoꝛ tionabilr̄ minoꝛat̄ inten^o ſicut maioꝛat̄ remiſſio.

Ad tertiā
dubitatio-
nē pro pte
affirmatiua.

Ad tertiam dubitationez arguit̄: ⁊ p̄mo arguit̄ p̄ affirmatiua. Si a. aliq̄ a nō gradu re miſſionis incipiāt remitti ⁊ ꝯtinue equeuelociter acq̄rent remiſſionē, ꝯtinue habebūt p̄ciſe equalr̄ de remiſſione: ⁊ per ꝯñs ꝯtinue erūt ſub eodez gradu remiſſionis: ⁊ p ꝯñs ꝯtinue erūt eque remiſſa. g̃ vz i^a pars ſequi.

Ad ptem
negatiuā.

❡ Cōtra quā ar^r ⁊ ponat̄ q̄ a. nūc ſit in du^o inten^o. b. ⁊ intēdant̄ in i^a ho ra equeuelociter in inſi^m. ⁊ ſeq̄t̄ q̄ eque cito deuenient ad gradū inſi^m: q̄ ſi nō capiat̄ i^d inſtās in quo a. deueniet ad gradū inſi^m. ⁊ ſeq̄t̄ q̄ ſi. b. tunc nō erit ſub gradu infinito q̄ tūc in inſi^m excedet. a. b. ſed ꝯñs eſt falſuꝫ: q̄ ex quo cō tinue equeuelociter intēdet̄, ſeq̄t̄ q̄ a. cōtinue excedet. b. equalr̄ ſicut nūc ipm excedit ſicut ſatis cōſtat tunc. a. ⁊. b. p totū i^d tpe equeuel^r deꝑderēt remiſſionē: eo q̄ ꝯti^r eq̄ue^r acq̄rerēt inten^{em}: ⁊ nō eſt aliud equeue^r deꝑdere remiſſionē q̄ equeue^r acq̄rere intenſionē: ⁊ a. cōtinue erit intenſius b. ⁊. b. remiſſius a. tūc ſic. A. ⁊. b. eq̄ue^r deꝑdēt remiſſionē: ⁊ equecito deuenient ad nō gradū remiſſionis: q̄ equecito deuenient ad infinitū gradum intēſionis qui vt argumē eſt nō gradus remiſſionis. ponat̄ ergo q̄ in hoꝛa cōpleat̄ huius inten^o ⁊ ſit nūc g̃ra argumēti finis illi^9 hoꝛe. ⁊ ponat̄ a. b. cōtinue per vnā aliaz hoꝛā ꝯſimilr̄ oino remitti ſicut ante hoc intēdebat̄. ⁊ ſequit̄ q̄ a. b. a nō gradu remiſſio

nis incipiunt acq̄rere remiſſionē: ⁊ cōtinue equeuelociter acq̄rent .a.b. remiſſionem vt pꝫ eo ꝙ prius equeuelociter deperdebāt remiſſionē: ⁊ nunc cōſimil'r acq̄runt ſicut prius deperdebāt. ergo nūc cōtinue equeuelociter acq̄rent .a.b. remiſſiones. ⁊ .b. cōtinue erit remiſſi⁹ .a. ergo dubitatio eſt falſa. ⁊ ꝙ .b. ꝯtinue erit remiſſius .a. pꝫ: q2 in p̄ma hoꝛa in via intenſionis fuit .b. cōtinue remiſſius .a. ⁊ nūc continue erit vtrūq3 eque remiſſum ſicut fuit in via intēſionis. ergo iª dubitatio non eſt vera.

R° ad primam dubitationem. **Ad primam** dubitationē r̄ndet̄ ⁊ cōcedat̄ pars affirmatiua: cōcedit̄ etiā totū vſq3 ibi: ꝙ in inſtāti me⁹ erit remiſſio in ſexquialtero maioꝛ q̄ȝ in p̄n°. ⁊ iᵈ ſimil'r eſt cōcedendum ⁊ neganda eſt ꝯn̄tia: ⁊ q̄n vlteri⁹ ex iº arguit̄ ꝙ plus acq̄ret in 2ª medietate t̄pis q̄ȝ in p̄ma, negat̄ iª ꝯn̄a: imo de oī poſitiuo qḋ debet intelli ſatis tenet ⁊ nō aliter. Et tunc ad 3ᵐ q̄n ponitur ꝙ remiſſio erit vt .ix. admittat̄. ⁊ q̄n arguit̄ ꝙ in fine erit vt .xviij. ⁊ h̄ debet negari: imo dicetur ꝙ in fine erit vt .iiij. ⁊ medietas vnius: ⁊ ſic gradus vt duo priuatiue eſt duplus ad gradū vt .iiij. ⁊ ideo ſi nunc ſit remiſſio vt .iiij. ⁊ dꝫ fieri dupla in fine eı̄ vt duo: ⁊ ſic ſemꝑ fiet remiſſius ſicut plus approꝑinquabit nō gradui ſue latitudinis poſitiue: ⁊ ideo ſi remiſſio nūc ſit vt .iiij. ⁊ vniformiter maioꝛet̄ ad du"ᵐ in inſtāti medio erit vt 3ª: ⁊ in fine erit vt duo: ⁊ ſic nō ſequitur in inſtāti medio erit remiſſio in ſexquialtero maioꝛ p̄ciſe q̄ȝ in p̄n° ⁊ in fine in duplo maioꝛ q̄ȝ in p̄n°. ergo plus acq̄ret in medietate ſecunda t̄pis q̄ȝ in p̄ma: de omni tamē poſitiuo bene tenet argumentum.

R̄ſio ad ſcd̄am dubitationē. **Per hoc** ad ſcd̄am dubitationē eſt dicēdum foꝛte cōcedendo partem affirmatiuā: ⁊ conceditur totum vſq3 ad iᵈ q̄n arguit̄ ſi remiſſio vniformiter maioꝛabit̄ plus ꝓpoꝛ' acquiret in p̄ma medietate t̄pis q̄ȝ in ſcd̄a, negāda eſt ꝯn̄tia: imo ſequit̄ oppoſitū vt patet per r̄ſionem p̄ꝑpoſitā: vt ſi nunc ſit remiſſio vt .iiij. ⁊ vniformiter maioꝛabit̄ ad duplum in inſtāti medio erit vt tria: ⁊ ſic nō acq̄iret niſi ꝓpoꝛtionē ſexquialterā in prima medietate t̄pis: ⁊ in ſcd̄a ſexquialterā vt ſatis cōſtat cōcedendum. De poſitiuo ſatis valet modus arguēdi: q2 ſi poſitiuū nūc ſit vt .iiij. ⁊ maioꝛabit̄ vniformiter ad du"ᵐ ſuū in fine erit vt .viij. ⁊ in inſtāti medio vt .vi. ⁊ in p̄ma medietate tēpoꝛis acq̄ret ꝓpoꝛtionē ſexquialterā: ⁊ in ſcd̄a ſexquialteram ſolum. vn̄ cū aliq̄s ponit remiſſionē maioꝛari nō alio mō intelligit̄ niſi intenſionē illo mō remitti vel dep̄di.

R̄ſio ad tertiam dubitationē. **Ad tertiam** dubitationē dicit̄ ꝙ iſta eſt vna cōditionalis īpoſſibilis: ⁊ tūc q̄n arᵍ ſi cōtinue equeuelociter acq̄rerent remiſſionē vnū cōtinue tn̄ habebit de remiſſione ſic' 2ᵈ, negat̄ ꝯn̄a. Si tn̄ latitudo inter aliquē gradum remiſſionis ⁊ nō gradum remiſſionis foꝛet finita optime valeret arᵐ. Nunc aūt eſt latitudo hō infinita inter oēm gradum ⁊ nō gradum remiſſionis vt prius eſt arguitū. ideo arᵐ nō valet vt p̄dicit̄. ¶ Reſpōſio 2ᵉ

Cōtra r̄ſionem. dubitationis ſic improbat̄. data iſta ſequit̄ ꝙ cuiuſlꝫ q̄litatis inten̄ ad remiſſionem eſt oīs ꝓpoꝛtio poſſibilis maioꝛis inequalitatis ⁊ minoꝛis īequalitatis ⁊ ecōuerſo tāq̄ȝ ꝓpoꝛtio totalis: vel ꝙ oīs gradus ſit ita intenſus ſicut remiſſus. ¶ Qꝫ p̄ma includat cōtradictionē ſatis conſtat: ⁊ ſcd̄a p̄s eſt īꝓbata: ⁊ ꝙ altera ſequat̄ arguit̄. Si eniꝫ remiſſio gradus ſignata per vnum numerū maioꝛetur: ⁊ per maioꝛationē talem maioꝛet̄ numer⁹: vt ſi remiſſio foꝛet vt duo ⁊ creſceret ad du"ᵐ: ⁊ tunc eſſet ſub gradu vt quatuoꝛ tunc ſequit̄ p̄ma pars diſiunctiue. Si aūt ponat̄ ꝙ remiſſione maioꝛata numerus per quē ſignat̄ minoꝛet̄: vt ſi remiſſio vt duo maioꝛet̄ ad du"ᵐ: ⁊ in fine erit vt vnū: vt p̄dicitur: tunc ſequit̄ ſcd̄a pars diſiunctiue. Primū ſic arguit̄: q2 ſignet̄ gr̄a arᵈ gradus cuius inten° ſit vt .iiij. ⁊ arguit̄ ꝙ remiſſio ſit vt duo p̄ciſe: q2 minoꝛet̄ inten° vſq3 ad duo: ⁊ arguit̄ ſic. Intenſio minoꝛabit̄ ad ſubduplum per deꝑditionem binarij: ⁊ equeuelociter ⁊ ꝓpoꝛ' iuxta r̄ſionem datam maioꝛat̄ remiſſio ſicut minoꝛat̄ inten°. ergo remiſſio maioꝛat̄ ad du"ᵐ per acq̄ſitionē binarij: ſꝫ nihil creſceret p̄ciſe ad du"ᵐ per acq̄ſitionē binarij niſi duo: q2 omne mai⁹ binario nō creſceret ad du"ᵐ: ⁊ minus duo creſceret vltra du"ᵐ ꝑ acq̄ſitionē binarij. ergo remiſſio in p̄ncipio erit vt duo. ¶ Conſil'r arguit̄ ꝙ remiſſio nūc ſit vt vnum: q2 minoꝛet̄ intenſio vſq3 ad vnū: ⁊ ſequit̄ ꝙ intenſio decreſceret vſq3 ad ſubquadruplum per deperditionē ternarij: ⁊ ſi ſic remiſſio creſceret ad quadruplum per acq̄ſitionem ternarij vt arguitū eſt prius de cremēto ad du"ᵐ: ſed nihil creſceret ad quadruplum per acq̄ſitionem ternarij niſi vnum. ergo remiſſio eſt vt vnum. ¶ Conſil'r arguit̄ de omni alia ꝓpoꝛtione ſemꝑ minoꝛādo iᵃᵐ intenſionē ad iſtū gradum. ¶ Per idem arguit̄ ꝙ remiſſio ſe hꝫ in ꝓpoꝛtione maioꝛis inequalitatis ad intenſionem: ⁊ hoc quacūq3 ſignata intenſione. ſ. maioꝛādo intenſionē ad quēcūq3 gradū volueris ꝓbando vt prius ꝙ remiſſio eſt ſub iº gradu ſub quo eſt iſta inten° in fine. Pꝫ igit̄ ꝙ ex p̄mo modo loquēdi de maioꝛatione remiſſionis foꝛmal'r ſequit̄ prima p̄s diſiunctiue. Et ꝙ ex alio mō loquēdi ſequat̄ alia p̄s ſic arguit̄. ſit inten° vt .iiij. vt prius ⁊ minoꝛet̄ ad ſubduplum. ſ. ad duo. ⁊ ſeq̄t̄ ꝙ remiſſio acq̄ret p̄uatiue duo vel deperdet: ⁊ per illam acquiſitionē que potius diceret̄ deperditio: creſcet remiſſio ad dupluū. igit̄ remiſſio iſta que creſcit ad duplū: nūc eſt vt .iiij. nihil eniꝫ creſceret ad duplum poſitiue per acquiſitionē binarij niſi duo. ḡ per idem nihil creſceret ad du"ᵐ priuatiue per deperditionē binarij niſi in p̄ncipio ſit vt .iiij. ḡ remiſſio iª nunc eſt vt .iiij. ⁊ per ꝯn̄s iᵉ gradus eſt ita intēſus ſic' remiſſus: qḋ fuit ꝓbādum. ¶ Jō dī ꝙ ſicut

Mot⁹ ad intēſionē ⁊ mot⁹ ad remiſſionē nō ſūt inuicē cōparabiles ſm̄ equale vel inequale. intēſio ⁊ remiſſio vt p̄dicit̄ nō ſunt adinuicē cōparabiles ſm̄ eq̄litatē vel ineq̄litatē: ſic nec mot⁹ ad intenſionē ⁊ remiſſionē debēt adinuicē cōpari. Si. n. mot⁹ ſūt cōpabiles: acq̄ſita per illos mot⁹ ſunt cōpabilia: ⁊ ſic negat̄ ꝙ equeuelo' maioꝛat̄ remiſſio: ſicut minoꝛat̄ inten°: cōcedit̄ tn̄ ꝙ eque ꝓpoꝛ' ⁊c̄. ¶ Et ad arᵐ remiſſionem maioꝛari eſt intenᵃᵐ remitti. ḡ equeuelociter ⁊c̄. negat̄ ꝯn̄a: ſicut ō ꝓpoꝛ' maioꝛis ineq̄litatis ⁊ minoꝛis inequalitatis: q2 ꝓpoꝛtionē minoꝛis ineq̄litatis maioꝛari eſt ꝓpoꝛtionē maioꝛis ineq̄litatis minoꝛari: ⁊ tn̄ nō equeue' nec tardius nec velocius maioꝛat̄: q2 tunc nec̄io ſequit̄ ꝙ ꝓpoꝛtio maioꝛis ineq̄litatis ꝓpoꝛtiōe minoꝛis ineq̄litatis eſt maioꝛ vel minoꝛ: vel ſibi eq̄lis. ꝯn̄s tn̄ eſt falſum pro qualꝫ ei⁹ p̄te: ⁊ ſic ſoluit̄ qḋ: q2 fūdat̄ ſuꝑ falſo. ſ. ꝙ equeuelo' remiſſio acq̄rit̄ ſicut minoꝛat̄ intēſio qḋ tn̄ eſt negādum. Si tn̄ cōtra hoc arguatur ſic in argumētis factis ꝯ alias pōnes capitur illud qḋ hic negat̄. igit̄ iſta argᵃ nō ꝓcedunt. negat̄ ꝯn̄tia: q2 ponētes alias pōnes cōcedūt cōꝑationē intēſionis ad remiſſionem ſm̄ eq̄litatē vel ineq̄litatē: ideo ꝯ illos ſatis bn̄ capit̄ acq̄ſitionē intēſionis adequari deperditioni remiſſionis: lꝫ tn̄ hec pō illud neget. ¶ Cōtra hoc obijcit̄: ſic ſtat ꝙ remiſſio alicuius gradus vt .iiij. ſit. ⁊ intēſio alic⁹ gradus vt .iiij. ḡ videt̄ ꝙ ille ſunt equales. negat̄ ꝯn̄a: q2 nō ſunt cōparabiles vt ſic: ſicut ante pluries eſt argutum.

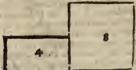
¶ Tractatus ſecundus de diffoꝛmibus.

Pri̇a p̄s. **Habito** penes qd in gn̄ali attendit̄ inten° rei. ingrendum eſt qual'r in diffoꝛmib⁹ eſt dōs. ¶ Prio arguit̄ latitudinē caliditatis vniformiter diffoꝛmē: ſeu ēt diffoꝛmiter diffoꝛmē: cuius vtraq3 medietas eſt vniformis: ⁊ calidum vniformiter diffoꝛme ſuo gᵘ medio correſpōderet: ⁊ hoc ſic iuxta ponētes iᵃᵐ pōnem. Capiat̄ talis caliditas ſeu tale calᵐ: ⁊ remittatur vna medietas ad gᵐ

meᵐ: ⁊ intēdat aᵃ ad meᵐ equeuelo͛: ⁊ ſic totū nō intendi nec remitti: eo q tantā latitudinē acqret ſʒ vnā medieta‑tem ſeu ptē: ſicut deꝑdet ſm aliā ptem equalem: ⁊ in fine erit vniformē ſub tali gradu medio. igit nūc corrideat tali gradui. ¶ Primo arguit ex illo añte cū vno nāli ſuppoſi‑to ſequi oppm̄ ↄñtis: ⁊ ſuppono cū hoc q calidū igneū ſic calefacit ſic rarefacit: illud ſeqt ex pluribꝰ dictis Phi in multis locis phie. Fit.n. cōdenſatio nālr a frido cōprimē‑te: ⁊ rarefactio a calido extendente: vt pʒ pᵒ ⁊ 4ᵒ metheo‑rorū ⁊ 2ᵒ de gnōne. nūc ſic arguit. Medietas remiſſior ca‑leſit: ⁊ alia frigefit: ⁊ iam iſte due medietates ſunt eq̄les. g medietas remiſſior cōtinue poſt hoc erit maior medieta‑te intenſiori: eo q remiſſior rareſiet ⁊ alia cōdenſabitur. igit per maiorē ptem totius per totū tēpus cōtinue erit intenſio q̄ remiſſio: ⁊ hoc eodē gradu vel eadē latitudie. ſit.ſ. gr̄a exᵗ q in pncipio vtraqʒ medietas ſit vniformis. g totū ↄtinue intēdet: ⁊ in fine erit vnifor͛ ſub gradu meᵒ inter illas medietates. g nunc eſt remiſſius iᵒ gradu meᵒ. ergo illud exemplum ſupponit ſim taʒ in antecedente q̄ in poſitione: ⁊ ex caſu nō ſequit poſitio ſed eius oppoſitū.

Cōtra po‑ſitionem.

2ᵒ q̄dam



¶ Ideo forte di negādo ↄñtiaʒ. ſ. per maiorē par‑tem erit intenſio q̄ remiſſio. ergo totū intendet. qꝛ ⁊ ſi per maiorem partē erit intēſio q̄ remiſſio: tñ ma‑ioratio medietatꝭ remiſſioris facit ad remiſſionē totius: ideo ſtat totum nō intēdi nec remitti. ¶ Illud nihil ē: qꝛ totū ↄtiᵉ erit remiſ‑ſius q̄ eſt gradus medius inter illos gradus per eandem pōneʒ: qꝛ cōtinue poſt hoc erit iᵃ pars que nūc eſt medie‑tas remiſſior maior alia: ⁊ vtraqʒ medietas eſt vniformis vel vniformiter difformis: vel cōſimilr difformis equalr diſtans cuʒ aᵃ a gradu medio. igitur cōtinue erit remiſſius q̄ iᵉ gradus medius: qꝛ ſi iſte ptes pro quolʒ inſtāti forent equales cōtinue: tunc totū correſpōderet gradui medio p pōnem: ſed nunc correſpōdet gradui remiſſiori q̄ tūc: eo q pars remiſſior eᵗ ↄtiᵉ maior intenſiori pte. ergo iſta reſ‑ſio nulla.

Cōtra reſ‑ponſionem.

2ᵒ

¶ Silr dato igneo calido vnifor͛ difformi: ⁊ alte‑rato eodeʒ gradu per totum, nunq̄ maneret illud vnifor͛ difforme: eo q equeuelox foret rarefactio ⁊ intēſio: ⁊ eque‑uelox rarefactio vel intenſio in minus raro plus facit ad eius maiorationē q̄ in intenſiori ⁊ magis raro ſibi equali: vel ecōtra iuxta opiones diuerſas: vt infra patebit. igitur medietas illius remiſſior conti͛ erit maior meᵗᵉ intenſiori hñs latitudinē q̄ᵘᵉ equaleʒ vl͛ ecōtra. igit ſubito totū fiet difformiter difforme: ⁊ alia multa ſequūtur iuxta cōem modum loquēdi.

3ᵒ

¶ Et ſilr ſequit, ſi aliqd ſit vnifor͛ dif‑forme terminatū ad ſummū ⁊ alteratū eodem gradu per totum ſequit q velocius ⁊ velociꝰ inducet gradus ſum‑mus. Iſte tamē vltime cōcluſiones ſequent iuxta omneʒ pōneʒ: ideo de his nō eſt cura. ¶ Ex pma igit pōne hi q oē calidū vniformiter difforme eſt remiſſius q̄ gradus medius eiuſdeʒ: ⁊ oē fridū intēſius. pma pars arguebat pus: ⁊ 2ᵃ pbat ſic. Remittat medietas intēſior ad meᵐ ⁊ intēdat equalr aᵃ medietas: tunc pars remiſſior cōdenſa‑bit eo q frigefiet: ⁊ alia. ſ. intenſior rareſiet: ⁊ per ↄñs ↄtiᵉ per maiorē partē eᵗ remiſſio friditatis q̄ intenᵒ ⁊ eodem gradu. igit totū ↄtiᵉ remittet: ⁊ in fine erit vnifor͛ ſub gra‑du meᵒ. ergo nūc eſt intēſius q̄ gradus medius: ideo nec de calido nec de aᵒ qualificato pcedit argᵐ. Nec tenet de caliditate: qꝛ ſi loquatur de qualitatiua medietate notū eſt q iᵉ due medietates ſūt eque intēſe: ⁊ per ↄñs nᵉ eſt meᵐ inter illas medietates. ideo ſi vna medietas itēſiua eque‑ue͛ intenderet ſicut remitteret aᵃ tota q̄litas cōpoſita ex iſtis ↄtiᵉ maneret tanta ſicut nūc: ⁊ nō in fine foret vnifor‑mis ſub gradu meᵒ inter illas medietates: qꝛ nuᵒ eſt iᵉ gra‑dus: imo foret q̄litas vniformis ſub eodeʒ gradu ſub quo nūc eſt. ⁊ ar͛ illaʒ hñe medietates intēſiuas equales: ⁊ etiā q ſit vniformis: qꝛ qōlʒ diſtās a nō q̄to ſeu a nō q̄titate per ſeipſuʒ ſolū diſtat ab iᵒ nō q̄to: ſicut pedale p pedale: ⁊ viij. pedale per. viij. pedale: ⁊ de oi q̄titate. igit omnis q̄titas eſt latitudo iᵃ iter ſeipſaʒ ⁊ nō gᵘˢ: ⁊ per ↄñs ſic eſt de q̄litate. ↄña tenet: qꝛ ita vere q̄litatiue cōpo͛ q̄litas ſeu gradus q̄litatis ex oibus gradibꝰ ſuis: ſicut q̄titas ex ſuis ptibꝰ cōpo͛ q̄titatiue ſicut iſra ar͛. Itē latitudo cōpo͛ ſolum ex oibus gradibꝰ inter extremū intēſius ⁊ nō gradū: ⁊ gra‑dus terminās illaʒ latiᵗᵐ precife ex eiſdeʒ gradibꝰ cōpo͛. ergo iᵃ latitudo eſt gradus qui cōuer po͛ terminare illam latiᵗᵐ ſicut latitudo a gradu ſummo vſqʒ ad nō gradū eſt gradus ſummꝰ. Ex quo appet eſſe ideʒ velocitatē aliquaʒ attēdi penes illaʒ latiᵗᵐ ⁊ penes gradū. Et ideo ponentes vnaʒ poſitionē hñt ponere aliaʒ: ⁊ ſic ſequit oēm latitudi‑nem fore graduʒ cōtinentē oēs gradus illius latitudinis: ſed cuiuſlʒ gradus medietates ſunt eque intēſe. igit etiaʒ cuiuſlibʒ latitudinis medietates ſunt eque intenſe: ⁊ ſicut ols gradus eſt vniformis: ſic quelʒ latitudo eſt vniformis. Si vō loquamur de medietate latitudinis quātitatiua no‑tum eſt q medietas remiſſior q̄titatiua nil facit ad inten‑ſionē qualitatis: eo q iᵃ āmota maneret qualitas tāta ſicut nūc: eo q gradus ↄtinēs oēs gradus illius latitudinis ma‑neret: ⁊ ideo intēſio illius ptis q̄titatiue nihil faciet ad in‑tenſionē totius qualitatis: qꝛ intēſiue ex iᵃ ⁊ alia medieta‑te nulla qualitas cōponit ſed ſolū quātitatiue: ⁊ ideo tota qualitas remitteretur eo q pars deperdita in medietate intenſiori facit qualitatiue ad totꝰ qualitatis remiſſionē: ſed qualitas acquiſita in remiſſiori medietate nihil facit qualitatiue ad totā qualitatē: ſicut ſi cape͛ vna longitudo pedalis: ⁊ ſi ad latus eius adderet tanta longitudo vl͛ mi‑nor tota longitudo nō maioraret: eo q tali mō addit: qō nō pōt maiorare illam dimenſionē vt ſic. Et ideo ſi detur corpus pedalis longitudinis: cui ſi addit ſemipedalis ſm latitudinē totū adhuc dī pedalis lōgitudinis vt dictū eſt. Et ſi iſta ſemipedalis longitudo maioret ſm longitudinē quouſqʒ ↄtineret tres q̄rtas pedalis: ⁊ pedalis longitudo minoret ad eundeʒ graduʒ longitudis totū longū diceret eſſe minꝰ longū: ⁊ tñ tantā longitudinē acqreret ſicut deꝑ‑deret: imo longitudo acqſita iᵒ mō acqreret q intenſiue nihil faceret ad intenſionē totius longitudis vel maiora‑tionē ſed ſoluʒ extēſiue. ⁊ iᵃ deꝑdita nihil faceret ad deꝑ‑ditionē longitudis intēſiue vt eſt talis dimēſio: ſic in ꝓpo‑ſito iᵃ qualitas acqſita illo mō acqrit q ad totā q̄litatem intēſiue nihil faciet ſed ſoluʒ q̄titatiue: imo ad hoc q in‑tenſiue faceret ad totā q̄litatē oporteret q coextenderet cuʒ iᵃ: ſicut longitudo acqſita ſi maioraret aliaʒ vel fieret aᵃ maior ꝓpter iſtā: opʒ q ad extremū alteriꝰ longitudis acqrat: ſicut ēt ꝓfunditas corpis nō maiorat intēſiue pp aliā ꝓfunditatē aduenientē niſi fiat coextēſio illarū vel ſaltē additio ſm ꝓfundum: lʒ ad aliud extremuʒ acqrat: ſed ſoluʒ q̄titatiue maiorē locū occuꝑᵒ. Sic etiam nec illa qualitas acqſita aliqd faceret q̄litatiue ſed q̄titatiue quo ad totā qualitatē: ⁊ ideo ſi accipiat medietas q̄litatis q̄li‑tatiua vel q̄titatiua: arᵐ pᵐ de q̄litate nō pcedit: ſilr etiaʒ nᵉ de q̄lificato pcedit niſi maneret vtraqʒ medietas. ſ. nō rarefacta vel nō cōdenſata: qō tñ eſt impoſſe ⁊ ſuper falſa imaginatiōe fundat: ⁊ iō poſitio nō eſt vā: qꝛ eiꝰ fundamē‑tuʒ eſt imaginatio falſa: ⁊ eſt ſimplr impoſſe ⁊ nō nāle.

Nota hic q due me‑dietates q̄litatiue q̄li‑tatis ſunt equales in‑tenſiue.

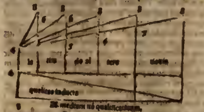
Alia positio quam ponūt vul Heritor et Iaco. for.

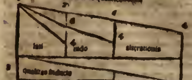
Alia est pō pones q̄ oē q̄lificatū nō admixtū cū suo 3rio ē ita itens sic aliq̄ ei9 p̄s q̄ nō vi rō q̄re foret remissius. Et si ar' q̄ sit remissius isto mō: q̄ p̄s remissior tal' pōt itēdi q̄usq3 fuerit eque itensa cū a': ⁊ tūc totū erit itēs' q̄ p̄us: q̄ acq̄reret certā lat̄ 3 talis q̄litatis 3sīlis cū q̄litate in p̄n' dicta. sz ista 3ña nō valet in mā illa sic p3 de longi corp̄is vl' de p̄fūditate cuiusdā. Et cā est q̄ illo mō addit̄ q̄ nō fac̄ q̄litatē maiʼ q̄ ad totū s3 q̄tit. Uel si 3 sic ar' ca... vnū vniforʼ sumātur h̄ īfinitas b3 cās. f. q̄litates summas: quaꝝ q̄l3 suffic ad tātū effectū. f. facē hoc eē summū: ⁊ per 3ñs effecti9 p̄duct9 ab oib9 istis foret infinit9: ⁊ sic illud summū foret īfinite intēsionis. negat̄ 3ña: q̄ oēs l' cāe sic iuncte sunt q̄ nō faciant maiorē effectū q̄ faceret vnū illoꝝ per se. s3 h̄ sufficit q̄ p̄ut facere effectū infinitū. ⁊ h̄ est verū: posito q̄ ex istis oib9 vna cā componeret q̄litatiue. Ex istis tñ nō sic cōponit̄ vna sed solum q̄titatiue: sicut capto corp̄e pedalis lōgitudīs illud h3 īfinitas lōgitudies: quaꝝ quel3 sufficit ad faciēdu3 id eē pedalis longitudis: ⁊ tñ sic vniunt̄ adinuicē q̄ oēs l' p̄ecise tantā faciūt longitudinē: ⁊ tñ ex istis īfinita posset fieri lōgitudo: sic ēt est de q̄litate vniformi s̄m subm. ❡ Ex ista

Prīa 3° sequēs ex hac pōne.

pōne seq̄t̄ q̄ solū mediāte latitudine eadē vel 3sīlis intensionis vniformiter extēsa per p̄tes equales mediorū equaliū vniformiū vel nō q̄lificatoꝝ: vnū alio velocius intēderet: vt capiāt̄ a. ⁊ b. media nō q̄lificata eq̄lia. ⁊ pōat̄ q̄ in. a. inducat̄ certa latitudo intēsionis p̄babil' s̄m subm extremo intēsiori p̄cedēte: que latitudo maneat continue vniformiter extēsa per p̄tē alterati: ⁊ iducat̄ in. b. equeue lociter 3sīlis latitudo manēs vniformiter extēsa per p̄tes alterati extremo tñ remissiori p̄cedēte. ⁊ ponat̄ q̄ extremo. a. a quo icipit eē p̄gressio latitudis 3tinue corrīdeat gradus intēsissimus caliditatis qui erit in. a. sicut patet eē possibile vbi tractat̄ de inductione gradus summi: ⁊ seq̄t̄ q̄. b. cōtinue erit tardius. a. q̄ vtriq3 extremoꝝ illorum a quo incipit alteratio p̄gredi cōtinue correspōdebit caliditas eoꝝ intēsissima: sed illi extremo in. b. corrīdebit caliditas intēsior q̄ illi extremo in. a. eo q̄ illi in. b. cōtinue corrīdebit alteratio velocior q̄ illi in. a. g̃ seq̄t̄ 3clō eo q̄ vtrūq3 manebit 3tinue eq̄ inten' cū extremo suo intēsiori.

Regula 5° ... ca.





B. medium non qualificatiuum.

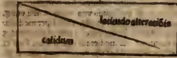
2° 3 Idem est arg' posito q̄ in p̄n°. a. ⁊ b. forent vniformia. Ðrīo seq̄t̄ q̄ aliq̄ eq̄ue' intēdent: vū tñ vnū itēdet̄ mediū latitudine terminata ad certos gradus: ⁊ aʼ meʼ extremo remissiori. ponat̄ eniz q̄ in. c. maximū nō qualificatū vl' vniformē inducat̄ gradus terminans l' latitudinē s̄m extremum remissius eq̄ue' sicut l' latitudo iduat̄ in. a. ⁊ seq̄t̄ q̄ l' 3tinue manebūt eque intēsa q̄ illis extremis ad que incepit alteratio eē caliditas intēsissima vtriusq3 3ti' corrīdebūt q̄litates que 3tinue erūt eque intēse vt p3. g̃ seq̄t̄ 3.

❡ Sed tñ ar' 3 l' 3 3nez p' per eandē pōnez: q̄ ois alteratio est ita velox sicut a° ei° p̄s. g̃ oē intēsū me' l' latitudine eq̄ue' intēdet̄ sicut si gradu intēsissimo eiusdē intēderet. Sz si me' gradu intēsissimo l' duo. f. a. ⁊ b. intēderent: eq̄ue' intēderent. igit̄ ⁊ nūc me' l' lat' eq̄ue' intēderent: ⁊ sic seq̄t̄ p̄ma 3nez eē falsaz. Et 2° est falsa: q̄ tūc b eq̄ue' intēdet̄. a. sic si gradu intēsissimo itēderet̄. g̃. c. nō ita velociter intēdet̄ sicut. a. ❡ Pro istis tñ 3nes debent cōcedi: ⁊ dī q̄ ad p̄ctū itrinseca in. a. ⁊ in. b. alteratio nihil faciet nisi q̄titatiue solū. f. quo ad p̄tes itrinsecas. sed q̄litatiue solū faciet alteratio ad extremū: eo q̄ nullū l' velocius acq̄ret de distātia q̄litatiua q̄ faceret si solum foret alteratio ad l' extrema nisi q̄titatiue. ❡ Et si querat̄ nūq̄d eq̄ue' intēdent̄ vel nō. Dōm est q̄ aliq̄ eq̄ue' intēdi est duplr. f. q̄litatiue vel q̄titatiue. vñ q̄titatiue eq̄ue' intēdent̄: eo q̄ ad aliquē punctū. a. 3tinue erit eq̄lis alteratio sicut ad extremū. b. q̄ tñ alteratio q̄titatiue solū faciet re'. a. eo q̄ extēdetur in p̄te. a. vnde si caperet̄ vnū calidu3 difforme terminatū ad summū q̄d inciperet alterari me' lat' terminata ad nō gradu3: sic q̄ in fine totū foret summū p̄ totū: tūc illud eq̄ue' intēderet̄ q̄titatiue sicut aliq̄ ei° pars intēderet̄ q̄litatiue: ⁊ tñ q̄litatiue totū nō intēderet̄: eo q̄ sua q̄litas 3ti' maneret summa: posito q̄ in p̄n° totū sit nō admixtū cū suo 3rio.

3 3nes.

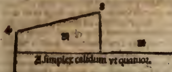
Rñsio.

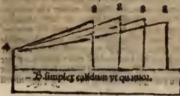
Duplr sic dici aliqd eque velociter itēdi.



❡ Ex l' etiā pōne seq̄t̄ l' 3clo: q̄ illud q̄d alterat̄ eadem latitudine vel gradu siue per p̄tē minorē siue per p̄tē maiorē ipsius vniforʼ alterat̄ subito nō admixto cu3 suo 3rio. 3° 3

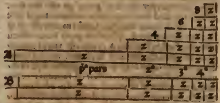
❡ Et ex l' seq̄t̄ q̄ aliq̄ duo ia3 sūt eque intēsa q̄ 3ti' eq̄ue' intēdent̄ ⁊ in fine erūt in eque intēsa. Sint eniz. a. ⁊ b. duo simplicia eque intēsa: ⁊ per medietates vtriusq3 extēdat̄ certa lat' alterationis: sitq3 extremū itēsi' v̄sus me' p̄ctū: ⁊ pono q̄ p̄ certū tp̄s sic alterabūt̄: ⁊ q̄ ali alterationes fuerint vniforʼ: ⁊ ponat̄ q̄ ad p̄ctū me'. a. iducat̄ in hora g' sūm' me' g' intēsissimo ill' lat': ⁊ extendat̄ l' lat' in. a. 3tinue sicut ⁊ nūc: s3 in. b. 3tinue p̄ maiorē p̄tē ⁊ maiorē: ⁊ seq̄t̄ l' eq̄ue' itēdi: ⁊. b. 3tinue vniforʼ: ⁊ etiā. a. per pōnē: ⁊ in fine. a. erit summū: q̄ p̄cto ei9 medio tūc corrīdebit gradus summ': ⁊. b. tūc erit remissiu3: q̄ ad oēm ei9 punctum tunc erit gradus remissius: quia ad medium punctum ⁊ a fortiori ad omnem aliam vt patet. igitur sequit̄ 3clo. Corrlaʼ





¶ Ideo dī ut prius ꝙ aliqua uniformiter alterari eſt du plicater quātitatiue ⁊ qualitatiue. vñ q̄titatiue.b. vniforˢ alterabit nō q̄litatiue: q2 tardius ⁊ tardiꝰ maiorabit ꝯtiˢ diſtātia q̄litatiua vt ſatis ꝑʒ: q̄titatiue tñ equeueˢ ⁊ vnifor miter: q2 per aliquas ptes.b.erit eq̄lis alteratio ſicut nunc eſt. ideo iª diſtinctio ſoluit totum.

Prima po. et pōt ſuſti neri. **Prima** tamen opinio de qualitate difformi: cuius vtraqʒ medietas eſt vniformis pōt ſuſtine ri.ſ. ꝙ rñdeat gradui medio inter illas q̄litates: ⁊ fundaṫ arᵐ ſup iº. In duplo plus facit qualitas extenſa per totum ſubiectū ad totius denoiationē q̄ ſi tota per medietatem extenderet: ꝙ arguit ſic. Signet.a.ꝙ hēat caliditatē vt.iiij. per totū: tunc totū eſt calidū per totū caliditate vt.iiij.ſed vna medietas illiꝰ tātū facit ad denoiationē totiꝰ ſubi ſicˢ aª medietas. igitur tota iª qualitas in duplo plus denoiat totū q̄ vna eiꝰ pars: ſiue medietas totū denoiat: qḋ fuit ꝓ bandū. Ex quo ſeqˢ ꝙ denoiatio totius ſubiecti per q̄lita tem extēſaʒ per medietatē ſoluʒ eſt ſubdupla ad iᵐ q̄lita tem: q2 in duplo minus denominat totum q̄ medietatem illaʒ per quam extenditur: ⁊ illam medietatem denoiat ſuo gradu ſummo. igiˢ totū per illaʒ q̄litatē denoiaṫ gra du ſubduplo ad illaʒ qualitatē. Et ſi extēdaṫ per quartam totius tūc: tunc denoiaret totum gradu ſubquadruplo ad illaʒ qualitatē. ⁊ ſic correſpondenter ſicut ꝓporˢ extendiṫ per minorē partē q̄ eſt totū: ita totū denoiat gradu remiſſiori q̄ pars per quā extēdit. ¶ Iſtis ꝯceſſis faciſr ꝓbatur pō. Sit enim tale vniformiter difforme ſeu difforme: cuius vtraqʒ medietas eſt vniformis vna vt.iiij. ⁊ alia vt.iiij. grā argumētatiue illa q̄litas vt.viij.extēdiṫ per medieta tem totius per ꝓdicta.g ſoluʒ denoiat totū vt.iiij.per ideʒ iª qualitas vt.iiij.per aliā medietatē extēſa ſoluʒ facit vt duo ad totiꝰ denoiationē.igiˢ iſte due q̄litates totuʒ ꝓciſe denoiabūt vt.vi.qui eſt gradus medius iter illas medie tates.ſeqˢ igitur pō ſic in ſpāli. ¶ Arguiṫ tñ ad hᶜ gñaſr ſic: ſigto tali difformi: tunc vtraqʒ qualitas in iſtis medie tatibꝰ eſt dupla ad graduʒ per quē totū denoiaṫ ab iª q̄li tate: ⁊ ſi aliqḋ fieret ex iſtis q̄litatibꝰ ſimul extēſis: iª q̄li tas eſſet dupla ad iᵐ duas denoiatiōes ſimul aggregatas que denoiatiōes denoiationē totiꝰ cōſtituūt: ⁊ per ꝯñs cū iª qualitates ſint in eque intēſe: ꝑʒ ꝙ denoiatio totius erit meᵃ equaſr inter iſtas duas qualitates: eo ꝙ oē cōpoſitum ex duobꝰ inequalibꝰ eſt ꝓciſe duplū ad meᵐ inter iª vt eſt argutū in 2ª ſuppōne ꝯnis.xxxviij.ď motu locali: ⁊ poſtea de inductiōe gradus ſummi arguiṫ.ſ. ꝙ oē cōpoſitum ex duobꝰ inequalibꝰ erit plus q̄ duplū ad oē minꝰ meᵐ: ⁊ mi nus q̄ duplū ad oē maius meᵐ. ꝑʒ g ex ꝓdictis ꝙ denoia tio totiꝰ eſt in gradu meᵒ inter illas q̄litates: qḋ fuit ꝓbā dum. ¶ Cōtra quā pōnē ⁊ eiꝰ fundamētū aᵗ ſic: q2 ſeqˢ ꝙ ſi pma ps ꝓportionalis aliᶜꝰ eſſet aliqualr̄ intenſa: ⁊ 2ª in duplo intēſior: ⁊ 3ª in triplo: ⁊ ſic in infiᵐ: totū eſſet eque intēſuʒ ꝓciſe ſicut eſt ſcḋa ps ꝓportionalis: qḋ tñ nō vʒ ve rum. Nam appet ꝙ iª qualitas eſt īfinita. g ſi ſit ſine ꝯrio infinite denoiabit ſuū ſubm. Et ꝙ cōcluſio ſequaṫ arˢ ſic. ſint.a.⁊.b.duo equalia ⁊ vniformia eodē gradu: ⁊ diuidaṫ a.⁊.b.in ptes ꝓportionales ꝓportiōe dupla: ⁊ ī illa hora: ita ꝙ ptes maiores terminent ſeu incipiāt ab hoc inſtāti: ⁊ ponaṫ ꝙ in pª pte ꝓportionali illius hore intēdaṫ pma pars.b.ad duplum: ⁊ ſilr̄ in 2ª pte ꝓportionali hore inten daṫ 2ª pars ꝓportionalis illius ad duplū: ⁊ ſic in īfinitū: ita ꝙ in fine erit.b.vniforme ſub gradu duplo ad gradū nūc habitū: ⁊ ponaṫ ꝙ in pª pte ꝓportionali illiꝰ hore intē daṫ totū reſiduū a pª pte ꝓportionali.a.acqrendo tantā la titudinē ſicut tūc acquirit pª ps ꝓportiōalis.b.⁊ in 2ª pte ꝓportionali eiuſdeʒ hore intēdaṫ totū reſiduū.a.a pª pte ꝓportionali: ⁊ 2ª illiꝰ.a.acqrendo tantam latitudinē ſicut tunc acqrit pars ꝓportionalis 2ª.b.⁊ in 3ª pte ꝓportiōali intēdaṫ reſiduū a pª pte ꝓportionali: ⁊ 2ª ⁊ 3ª acqrēdo tan tā latitudinē ſicˢ tūc acqrit 3ª pars ꝓportionalis.b.⁊ ſic in infiᵐ: ſic ꝙ q̄ñcūqʒ aliqua pars ꝓportionalis.b.īteˢdeṫ: ꝓp tūc itēdaṫ.a.ſm ptes ꝓportionales ſubſequētes ptes cor reſpōdētē in.a.acqrēdo tātā latitudinē ſicut acqret pars illa in.b.⁊ ſint.a.⁊.b.cōſilis q̄titatis ꝯtiˢ: quo poſito ſeqˢ ꝙ.a. ⁊.b.ꝯtinue eq̄uelociter itēdent: q2.a.ꝯtinue per pte eq̄leʒ ꝓportionalē intendeṫ ſicut.b.q2 reſiduū a pª parte ꝓpor tionali.a.eſt equale pme parti ꝓportionali eiuſdem.b.



¶ Cuʒ igiˢ.b.in pª pte ꝓportiōali illiꝰ hore ꝯtinue intēdeṫ per pᵐ pte ꝓportionalē.⁊ ſilr̄.a.per totū reſiduū a pª ſua pte ꝓportionali. ꝑʒ ꝙ.a.in pª pte ꝓportionali eq̄uelociter itēdeṫ cū.b.⁊ ſic de omni alia pte: eo ꝙ q̄ñcūqʒ.b.intēdeṫ per aliquā ptē ꝓportionalē.a.itēdeṫ ꝑ totū interceptū iter ptes correſpōdētes ſui ⁊ extremū vbi ptes terminanṫ.ſ.mi nores. Cū g q̄libet pars ꝓportionalis cuiuſlibet ꝯtinui ſit eq̄lis toti intercepto inter eādē ⁊ extremū vbi ptes mino res terminanṫ.ſeqˢ g ꝙ.a.ꝯtinue per ptē eque ꝓportiona lē, ſic itēdeṫ ſicut.b.igiˢ ꝑʒ ꝙ.a.ꝯtiˢ eq̄uelociter itēdeṫ cū b.⁊ nūc eſt eque intēſum cū.b.vt poˢ in caſu. ⁊ h̄ vbi par tes ſint ꝓportionales ꝓporᵉ dupla. g in fine.a.erit eque intēſum cuʒ.b.⁊.a.tūc eſt tale cuius pª pars ꝓportionalis erit aliqualr̄ intēſa.⁊ 2ª pars ꝓportionalis in duplo intē ſior. ⁊ 3ª in triplo intēſior: ⁊ ſic in īfinitū: ⁊.b.erit vniforme ſub gradu ſub quo erit 2ª pars ꝓportionalis.a. ſequiṫ cō cluſio. Minor ſic arguiṫ que fuit h: ⁊.a.tūc erit tale cuius pma pars ꝓportionalis ⁊c. Sit.c.gradus queʒ nūc habēt a.⁊.b.tūc in fine erit pma pars ꝓportionalis.a.ſub.c.gra du: quia nō intēdeṫ.⁊ 2ª pars ꝓportionalis.a.tūc erit ſub gradu duplo ad.c.q2 in omni pte ꝓportionali hore acqre tur tāta latitudo ſicut eſt.c.⁊ 2ª pars ꝓportionalis.a.ſoluʒ intēdeṫ per pmā partē ꝓportionalē illius hore.g illi ſcḋe parti ꝓportionali.a.ſolū acqreṫ vnū.c.⁊ per ꝯſequēs tūc erit ſub duplo gradu ad.c.⁊ 3ª pars ꝓportionalis.a.ſolum intēdeṫ per duas ptes ꝓportionales hore: q2 ſolū per pri maʒ partē ⁊ ſcḋaʒ. ⁊ quarta pars ꝓportionalis.a.ſoluʒ in tendeṫ per tres ptes ꝓportionales illiꝰ hore: ⁊ ſic in infiᵐ: vt ſatis ꝑ caſuʒ ꝑʒ. g 3ª pars ꝓportionalis.a.ſolum acqret duo.c.⁊ erit in fine in triplo intēſior q̄ eſt.c.gradus. ⁊ 4ª acqret tria.c.⁊ ſic in infinitū.igiˢ ꝑʒ ꝙ tunc pme ps ꝓpor tionalis.a.erit aliqualr̄ intēſa: q2 vniformis.c.gradu. ⁊ 2ª pars in duplo intēſior: q2 mediantibꝰ duobꝰ.c.gradibus. ⁊ 3ª in triplo intēſior: q2 mediātibꝰ tribus.c.⁊ ſic in infinitū. ergo ꝑʒ iſta minor: ⁊.b.tunc erit eque intenſuʒ cū 2ª parte ꝓportionali.a.q2 vniforme duobꝰ.c.gradibꝰ: q2 quelibet eius pars ꝓportionalis ſoluʒ intendeṫ ad duplum.g ſeqˢ cōcluſio que eſt cōcedenda. ¶ Ad arᵐ in oppoſitū negaṫ ꝯñā. hec eſt qualitas infinite intēſa. ergo infinite totū ſub iectuʒ denoiat: q2 iº modo extendiṫ ꝙ infinite modicū fa cit qualitas iª infinita reſpectu illius ſubiecti. nam quali tās quarte ptis ꝓportionalis eſt in duploītēſior q̄ quali tas ſcḋe partis ꝓportiōalis: ⁊ eſt ſubiectū ſubquadruplū: ⁊ ideo in duplo facit minus.ſ. q̄ ſcḋa. Si enim quarta ps ꝓportionalis eſſet in octuplo intēſior q̄ prima: ſicut eſt in

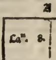
Cōtra pōnē pª ꝯ

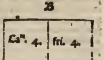
Ad rōnē in oppoᵐ.

octuplo

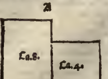
octuplo minor ĩ ſ:tūc tantū faceret ad toti⁹ denoīationē ſi
cut pᵃ:ſed 4ᵃ pars vt ꝯſtat eſt nūc in duplo minus intēſa
ꝙ̄ nūc eēt:qꝛ nūc eſt in duplo remiſſioꝛ ꝙ̄ tūc eēt.cuꝰ ꝗ 4ᵃ
pars ꝓportionalis in duplo minus facit in cōparatōe ad
totū ꝙ̄ facit pᵃ pars ꝓportionalis.⁊ pᵃ tantū facit in cōpa
tione ad totū vt 2ᵃ:vt pꝫ.igit̄ 4ᵃ pars ꝓportionalis in du
plo minus facit ꝙ̄ 2ᵃ ad totius intēſionē:⁊ tñ ſua qualitas
eſt in duplo intēſioꝛ:⁊ ſic diſcurrēdo q̄libet qualitas extēſa
per ptē poſteriorē minus facit ꝙ̄ qualitas extēſa per ptē
poꝛez:vocādo ptes poꝛes que ſunt ꝓpinquiores extremo
vbi ptes maiores terminant̄.⁊ h̄ eſt verū de oībꝰ ptibus
2ᵃ ꝯclo ꝓportionalibꝰ.a.niſi de pᵃ ⁊ 2ᵃ que equalr̄ faciūt ad totius
denoīationē.¶ Cōtra 1ᵐ ꝯnez arguit̄.ex iſta ſeq̄tur ꝙ.a.
nūc eſt ſolū finite intēſum:⁊ per rarefactionē finitā ſolū ſu
bito fiet ĩfinite intēſuz.Et ꝙ 1ᵐ ſit falſa,arguit̄ ſic.a.nō intē
det̄ niſi ꝑ rarefactionē.igit̄ ſi rarefactio ſeu acq̄ſitio quā
titatis ſit tñ finita:ſeq̄t̄ ꝙ.a.ſolū finite velociter intēdet̄:
⁊ per ꝯñs nō fiet ſubito ĩfinite intēſuz.Et ꝙ ꝯcluſio ſequa
tur arguit̄ ſic.ſit.a.tale cuiꝰ pᵃ pars ꝓportionalis ſit aliq̄
liter intēſa.⁊ 2ᵃ in duplo intēſioꝛ.⁊ 3ᵃ in triplo intēſioꝛ:⁊ ſic
in ĩfinitū:tūc.a.eſt ſoluz finite intēſum:vt ꝑdicit̄. Ponat̄
igit̄ ꝙ 2ᵃ pars ꝓportionalis.a.aliqualr̄ velociter rarefiet
acq̄rēdo q̄ntitatē:⁊ 4ᵃ pars ꝓportionalis in duplo intēſioꝛ
2ᵃ pte ꝓportionali in duplo tardius acq̄rat de quātitate:⁊
pars in quadruplo intēſioꝛ 1ᵃ 2ᵃ:in q̄druplo tardius acq̄ret
quātitatē ꝙ̄ illa 2ᵃ:⁊ ſic in ĩfinitū.⁊ nūc incipiat hꝰ rarefa
ctio in illis ptibꝰ ſtātibꝰ oībus alijs ptibꝰ nō rarefactis nec
cōdēſatis.⁊ ſeq̄t̄ ꝙ.a.ſolū finite velociter rarefiet ſeu ma
ioꝛabit̄:qꝛ pᵃ pars rarefacta aliqualr̄ rarefiet ſeu maioꝛa
bit̄:⁊ 2ᵃ in duplo tardius:⁊ ſic in ĩfinitū. Et ꝙ.a.ſubito in
ĩfinitū intēdat̄ pꝫ:qꝛ ante q̄dcūq₃ iſtans habebit.a.ĩfinitas
ptes:quaꝝ q̄libet tantū faciet ad intēſionē totiꝰ:ſicut eſt hoc
certū datū:demōſtrando 1ᵐ qd̄ faciet q̄ntitas acq̄ſita ſcd̄e pti
ꝓportionali.nā ſic aliq̄ pars acq̄ſita alicui pti ꝓportiona
li:erit minoꝛ ꝙ̄ quātitas acq̄ſita 2ᵉ pti ꝓportionali:ita ea
dē pars erit intēſioꝛ ꝙ̄ 2ᵃ pars ꝓportionalis:⁊ ꝙ̄ q̄ntitas ſi
bi acq̄ſita:vt ponit caſus,addēdo ꝙ q̄libet pars ꝓpoꝛˡⁱˢ in
pnᵒ ⁊ ꝯtinue ſit vniformis.ſꝫ h̄ eſt gnālr̄ veruz:ꝙ ſi ꝓpoꝛᵗ
ſic vna q̄ntitas ſeu pars alicuiꝰ eſt alia pte minoꝛ:ita eadez
ſit alia pte maiori intēſioꝛ:equalr̄ faciēt oēs hꝰ ptes ad to
tius intēſionē.ꝗ oēs iſte q̄ntitates acq̄ſite ĩfinite faciēt eq̄li
ter ad totiꝰ denoīationē.i.ante q̄dcūq₃ inſtāe:⁊ per ꝯñs cū
erūt hꝰ ptes ĩfinite:ſeq̄t̄ ꝙ in ĩfiᵐ faciēt ante q̄dcūq₃ iſtās
datū.Et ꝙ 1ᵐ aſſumptū ſit veruz.ſ.ꝙ ſi ꝓpoꝛᵗ ſic vna q̄nti
tas ſeu pars ⁊c̄.pꝫ.ſit.n.vna pars gr̄e arᵗˡ dupla ad aliaz:⁊
in duplo remiſſioꝛ.⁊ arᵗ ſic.Si iſta pars ſubdupla que ſit
c.foret ſub eodez gradu ſic̄ pars dupla que ſit.d.in duplo
minꝰ faceret.c.ad totiꝰ intēſionē ꝙ̄.d.qꝛ.c.tūc tantuz faceret
ſicut vna medietas.d.eo ꝙ tūc.c.pars ⁊ medietas.d.eēnt
eq̄les ⁊ ſub eodez gradu:⁊ tūc faceret.d.in duplo plus ꝙ̄
vna eius medietas:poſito.d.vnifoꝛᵉ.ꝗ tūc faceret.c.in du
plo minꝰ ꝙ̄.d.ſꝫ nūc.c.in duplo plus facit ꝙ̄ tūc:eo ꝙ nūc
eſt in duplo intēſius ꝙ̄ tūc eēt.igit̄ nūc.c.faciet tantū ad to
tius denoīatiōez ſic̄.d.⁊ ſic de oī alia ꝓportione eſt arguē
dū.igit̄ pꝫ 1ᵐ nōbile:ex quo ſeq̄t̄ ꝯclō cū caſu poſito. Jdeo
Ad argᵐ 3 ꝯclonē. ꝯcedēda eſt ꝯclo.¶ Et ad argᵐ in oppoᵐ negat̄ ꝯñā:qꝛ lꝫ
ſolū finite veloᵗ incipiet totū maioꝛari ĩfinite:tñ ꝓpoꝛᵗ in
cipiet aliq̄ pars maioꝛari.⁊ ideo ĩfiᵗᵉ ꝓpoꝛᵗ incipit denoīa
tio alicuiꝰ ptis in cōparatōe ad totū maioꝛari.⁊ ſic vt ꝓba
tū eſt ĩfinite incipit denoīatio totiꝰ maioꝛari ꝑ maioꝛatio
nē oīm illaꝝ ptiū.Aſſumptū pꝫ.nā 4ᵃ pars ꝓportionalis
eſt ꝑciſe in duplo intēſioꝛ ꝙ̄ 2ᵃ:⁊ in q̄druplo minoꝛ vt cō
ſtat:⁊ in duplo tardius acq̄ret q̄ntitatē:ideo in duplo velo
ciꝰ ꝓpoꝛᵗ incipit 4ᵃ pars ꝓpoꝛᵗ maioꝛari ꝙ̄ 2ᵃ:⁊ 8ᵃ pars
ꝓportionalis eſt in.16.minoꝛ ꝙ̄ 4ᵃ:vt pꝫ.⁊ in duplo tar
dius ꝑciſe acq̄ret q̄ntitatē ꝙ̄ 4ᵃ:qꝛ eſt in duplo intēſioꝛ.ꝗ in
octuplo velociꝰ ꝓpoꝛᵗ incipit 8ᵃ pars ꝓportionalis maioꝛa
ri ꝙ̄ 4ᵃ.Si.n.eq̄velocʳ acq̄reret 8ᵃ pars ꝓportionalis q̄nti
tatē ſic̄ 4ᵃ:tūc in decimoſexuplo velociꝰ ꝓpoꝛᵗ maioꝛat̄:
vt pꝫ in regulis poſitis de motu locali:⁊ nūc in duplo tar
dius maioꝛat̄ 8ᵃ pars ꝙ̄ tunc maioꝛaret̄:vt pꝫ.igit̄ nūc in
octuplo velociꝰ ꝓpoꝛᵗ maioꝛat̄:ſeu incipit maioꝛari 8ᵃ pa
ꝓportionalis ꝙ̄ 4ᵃ:⁊ ſic in ĩfiᵐ.⁊ ſic pꝫ ꝓbāduz.¶ Jtē ex 3ᵃ ꝯclo
illa pōne ſeq̄t̄ ꝙ aliq̄d ꝯtiᵉ certe velociter intēdet̄:⁊ ēt q̄li
bet eiꝰ pars ꝯtiᵉ certe velociter.intēdet̄:⁊ tñ cuiuſlibet ptis
illiꝰ ĩfiᵗᵉ tarde ꝯtiᵉ intēdet̄ aliq̄ pars.Cuiꝰ tñ oppᵐ appet:qꝛ
ſi q̄libet pars certe veloᵗ intēdet̄.ꝗ cuiuſlibet ptis vel ali
cuiꝰ ptis certe velociter intēdet̄ q̄libet pars:⁊ ꝑ ꝯñs ꝯclō fal
ſa.Et ꝙ 1ᵃ ſequat̄ ex pōne argᵗ ſic.capiat̄.a.vnifoꝛᵗ diffoꝛ
me calidū:⁊ ꝯdēſet̄ totū v̄ſus extremū intēſius:ita ꝙ quāto
ptes ſunt remiſſiores:tāto velociꝰ ꝯdēſent̄ ſeu minoꝛent̄:
qd̄ accipit̄ hic pro eodē:tūc ꝙ.a.ꝯtiᵉ certe veloᵗ intēdet̄ ,pꝫ:
qꝛ ſi ꝯtiᵉ equalis eēt ꝯdēſatio vndiq₃:tūc totū nō intēderet̄
nec remitteret̄:qꝛ ſemꝑ maneret ꝯſiᵗ diſpoſitū ſic̄ nūc eſt:
ſꝫ nūc velocioꝛ erit ꝯdēſatio in ptibꝰ remiſſioꝛibꝰ ꝙ̄ in pti
bus intēſioꝛibꝰ:⁊ ꝯdēſatio ptis remiſſioꝛis vl̄r facit ad to
tiꝰ intēſionē iuxta hāc pōnē.igit̄ pꝫ ꝙ totū.a.ꝯtiᵉ certe velo
citer intēdet̄.Et ꝙ q̄libet eiꝰ pars ꝯtiᵉ certe velociter intēdet̄
oīno ꝯſilr̄ arᵗ:eo ꝙ cuiuſlibꝫ talis ptis velociꝰ ꝯdēſabunt̄
ptes remiſſiores ꝙ̄ ptes intēſiores.Et ꝙ cuiuſlibet ptis ĩfi
nite tarde ꝯtiᵉ intēdet̄ aliq̄ pars pꝫ:qꝛ cuiuſlibet ptis ꝑ ĩfiᵐ
modicū diſtat aliq̄ pars ab extremo intēſiori eiuſdē ptis:⁊
nunq̄ deueniet aliq̄ pars ad intēſionē extremi ſui intēſioꝛis
ꝑ hꝰ ꝯdēſationē:qꝛ cuiuſlibet ptis ꝯtiᵉ diſtabit q̄libet pū
ctus intrinſecus ab extremo intēſiori.ꝗ ĩfinite tarde ꝯtiᵉ intē
det̄ cuiuſlibet ptis aliq̄ pars.ꝯñā tenet ⁊ maioꝛ arᵗ ſic.det̄
aliq̄ pars tūc ex q̄ 1ᵃ eſt vnifoꝛᵗ diffoꝛmis.pꝫ ꝙ tota 1ᵃ lati
tudo itenᵉ ꝑ certā latitudinē diſtat ab extremo illo intēſio
ri illiꝰ:qꝛ talis pars correſpondet ſuo medio iuxta pōnez.Etiā
meᵗᵃˢ iſtiꝰ ꝑ induᵉ minus diſtat ab extremo ſuo intēſiori ꝙ̄
tota 1ᵃ pars:qꝛ gradus mediꝰ illiꝰ medietatꝭ eſt in duplo ꝓ
pinqoꝛ extremo intēſiori totiꝰ:⁊ ſic 4ᵃ intēſiſſima ꝑ in q̄dru
plo minus diſtat ab extremo intēſiori ꝙ̄ tota:cuius eſt 4ᵃ:
⁊ ſic in infinitū.ergo per ĩfinite modicum diſtat aliq̄ pars
iſtius partis date ab extremo ſuo intēſiori:qd̄ fuit ꝓbā
dum.ſequit̄ igit̄ ꝯcluſio cōcedenda. ¶ Et ad argᵐ in op
poſitū negat̄ ꝯſequētia:ſicut nūc ꝓbatū eſt illā nō valere.
¶ Ex hoc ſequit̄ ꝙ vbicūq₃ aliq̄d intēdit aliud per cōdē Correᵐ.
ſationez:ĩfinite tarde intēdet̄ aliqua eius pars:qꝛ det̄ tale:
tūc ſi ſit vnifoꝛᵗ diffoꝛᵗ 1ᵐ iaz ꝓbatū eſt:ſi ſit diffoꝛme cuiꝰ
aliq̄ pars ſit vniformis ſic̄ pars intēſioꝛ:tūc ab intēſione illiꝰ
ptis ꝑ ĩfinite modicū diſtat aliq̄ pars cōpoſita ex 1ᵃ pte:⁊
alia pte ptis remiſſioꝛis:vt pꝫ.⁊ nunq̄ per hꝰ ꝯdēſationē
deueniet aliq̄ pars ad intēſionē illiꝰ ptis vniformis ſicut cō
ſtat.igit̄ ĩfinite tarde intēdet̄ aliq̄ pars iſtiꝰ.Si aūt ꝑ totuz
ſit diffoꝛᵗ.vel igit̄ erit ꝯdēſatio ꝑ totū vel per ptē.ſi ꝑ totū
argᵗ ſic̄ in ꝯne prima.Si ꝑ ptē erit ꝯdēſatio ⁊ nō ꝑ totuz:
tūc opꝫ ꝙ 1ᵃ ꝯdēſatio ſit in pte remiſſioꝛi:qꝛ aliter nō intē
deret̄ totū rōne iſtiꝰ ꝯdēſationis.Sit igit̄.c.pars que ꝯdē
ſabit̄:⁊.d.pars intēſioꝛ reſidua:⁊ ſit.a.totū.Arguit̄ tūc ſic.ꝑ
aliquātū diſtat cōpoᵐ ex.d.⁊ toto.c.ab intēſione.d.ptiet ꝑ
induᵉ minus diſtat cōpoᵐ ex.d.⁊ aliq̄ pte.c.ab intēſione.d.
⁊ ſic deinceps vt arguitū eſt:eo ꝙ in ĩfinita modica ꝓpoꝛᵗᵉ
ſe hꝫ aliqd̄ tale cōpoᵐ ad.d.⁊ nunq̄ ꝑ hꝰ ꝯdēſatiōez deue
niet aliqua talis pars cōpoſita ad intēſionē.d.vt pꝫ:eo ꝙ
cuiuſlibet talis cōpoſiti ſꝑ diſtabit aliq̄ pars a.d.igit̄ ĩfini
te tarde intēdet̄ aliqd̄ tale cōpoᵐ:qd̄ eſt ꝯcedēdū.¶ Cōtra 3 corrᵐ.
quā ſic argᵗ.Jllud intēdēs ex certa ꝓpoꝛᵗᵉ actio agit.ꝗ nō
ĩfinite tarde intēdet̄ aliqd̄ tale cōpoᵐ.negat̄ ꝯñtia:qꝛ lꝫ cer Rñſio
te velociter agat.ſ.ꝯdēſando ꝑ accñs:tñ eſt ꝙ illud intēdit,

nō itē dic.n.niſi q2 facit ꝑtē itēſiorem plus ꝓpor' facere in
cōparatiōe ad totū ſubm ⁊ ꝑtē remiſſiorē minus:vt dcīs
eſt.⁊ ideo ſilr vbi agēs agit ex ꝓporᵉ certa:mot' pn' ab eo
Nō eſt incōueniēs aliquid ex certa ꝓportiōe itēdi infinite tarde quādo ꝑ accidens fit. Nota. ſrētus erit tāte velocitatis ſic eſt velocitas illi ꝓpoⁿⁱ corri/
dēs.De aliqs tñ motib' qui ꝑ accñs ꝑ hõ actionē ꝓducunt
nō reqrit̄ h eē verū.¶ Itē ſeqꝛ ꝙ oīa iſta ſunt nūc ꝯſilia:
⁊ ꝑ ꝯſilēꝫ rarefactionēꝫ ſeu eq̄lē acq̄ſitionē q̄ntitatis:⁊ per
ptes eque ꝓporˡᵉˢ reᵉ tot' īfinite velociter incipit aliqd il/
loꝝ itēdi:⁊ īfinite tarde.Sint.n.īfinita:q̄rū pᵐ ſit aliq̄ntulū
paruū.⁊ 2ᵐ in duplo min'.⁊ 3ᵐ in triplo minus:⁊ ſic in īfi/
nitū:⁊ ſit cuiuſlibꝫ illoꝝ vna medietas ſūme calida:⁊ alia
4ª ꝯcl'o remiſſe calida eodē gradu in q̄libet:⁊ incipiat illoꝝ pars
ſūme calida rareſieri vel acq̄rē certā q̄ntitatē.c.gradu:ſtā/
tib' aliqs medietatib':tūc ꝙ oīa ſint ꝯſilr itēſa ⁊ diſpoſita.
pꝫ per caſuꝫ.⁊ ſilr oīa incipiūt rareſieri ꝑ ptes eque ꝓpor/
tionales cito:q2 ꝑ medietates ⁊c̄. Et ꝙ īfinite velociter in/
cipit aliqd illoꝝ itēdi.pꝫ:q2 nūc diſtāt oīa per certā latitu
dinē a ſūmo. vꝫ.per eq̄lē latitudinē:⁊ per īfinite modicuꝫ
imeᵗᵉ poſt h diſtab' aliqd iſtoꝝ a ſūmo.g̃ īfinite velo' inci
pit aliqd illoꝝ intēdi.añs pꝫ:q2 q̄cūq3 inſtāti dato poſt hoc
ante iᵈ erit certa q̄ntitas cuilibet illoꝝ acq̄ſita.g̃ imediate
poſt h īfinite magna erit ꝓpor° ptis ſūme calide alicui' il/
loꝝ ad ꝑtē remiſſaꝫ:⁊ ꝑ ꝯñs īfinite modicū diſtabit aliqd
illoꝝ imeᵗᵉ poſt h a ſūmo:⁊ per ꝯñs infinite velociter ⁊c̄.
Silr arguit̄ ꝙ īfinite tarde ⁊c̄.q2 imeᵗᵉ poſt h per īfiᵐ mo
dicū diſtabit aliqd illoꝝ a ſūmo:⁊ q̄libet illoꝝ per certū
tp̄s intēde':⁊ nunq̄ꝫ fiet aliqd illoꝝ ſūme calidū.g̃ infinite
tarde itēde' aliqd illoꝝ.ideo ꝯcedit̄ ꝯcl'o:q2 lꝫ ſic certe ve
lociter incipiat eē rarefactio:per ꝑtē alicui' illoꝝ:tñ īfini/
te velociter imeᵗᵉ poſt h ꝓpor' rareſiet aliqd.⁊ ideo īfini/
te velociter incipit' rarefactio aliqd illoꝝ itēdē:q2 īfinite
ꝓpor' incipit maiorare ꝑtē ſūmā ſupra ꝑtē remiſſam ali/
5 ꝯclōne, cui' illoꝝ.¶ Cōtra ꝯ̄nē arguit̄ in iſto eodē caſu:ſit.a.pᵐ il/
loꝝ gr̃a arⁱ.⁊ arguit ſic.nullū illoꝝ itēde' niſi ꝑ maioratio/
nē ꝓporⁿⁱˢ ptis ſūme calide ſupra ꝑtē remiſſam:ſꝫ in.a.ꝯti
nue tardius maiorabit̄ ꝓpor° ptis ſūme ſupra ꝑtē remiſ/
ſam q̄ꝫ in aliq̄ alio illoꝝ:vt pꝫ:eo ꝙ q̄libet eoꝝ ꝯti' erit
minus.a.⁊ eq̄uelo' creſcēs cū.a.igit̄ q̄libet illoꝝ ꝯti' velo
cius itēde' q̄ꝫ.a.ſꝫ.a.nō īfinite tarde incipit itēdi.igit̄ a for
tiori nūc nō incipit aliqd illoꝝ īfinite tarde itēdi.igit̄ ꝯcl'o
eſt falſa in iᵒ caſu.¶ Pro iſto negat̄ ꝯña:q̄libet illoꝝ ꝑ
maioratiōeꝫ ꝓporᵐ ⁊c̄.igit̄.a.ꝯti' tardius itēdet̄ ⁊c̄.Et ꝙ
ꝯña nō valeat arguit̄ ſic. Nā det̄ iᵒ qd ꝯti' veloci' itēdet̄
q̄ꝫ.a.ſi ꝯña valet:⁊ ſit.c.tūc ſic det̄ aliqd inſtās.⁊ ſeqt̄ ꝙ.c.
tūc ꝑ minorē latitudinē diſtabit a gradu ſūmo q̄ꝫ.a.diſtet.
ſit igit̄ ꝙ.a.ꝑ.f.latitudinē in tali iſtāti diſtet a.c.tūc.a. pōt
itēdi q̄uſq3 diſtet a ſūmo per.f.latitudinē ſolū.igit̄ ſi.c.ꝯti
nue velocius itēdet̄ q̄ꝫ.a.ſeqt̄ ꝙ ante illud iſtās in quo.a.
diſtabit a ſūmo per.f.latitudinē ſolū erit.c.ſūmū.ꝯñs fal/
ſum:q2 tūc erit pars ſūma.c.ſoluꝫ finita ⁊ reſidua pars re
miſſa:ideo nō valet arᵐ.Silr ponat̄ ꝙ pars ſūma.a.rare/
fiat q̄uſq3 totū.a.ꝑ in duplo minus diſtat a ſūmo q̄ꝫ nūc.⁊
ſeqt̄ ꝙ q̄ntūcūq3 velocius ꝓpor' itēdet̄ pars ſūma poſt il/
lud iſtās in quo erit in duplo minus diſtās a ſūmo q̄ꝫ nūc
ꝙ nō poterit reliquā ꝑtē illi' latitudis acq̄rē per hõ rare/
factionē:q2 tūc nunq̄ꝫ fieret ſūmū niſi ſubm in īfiᵐ rarefie
ret:ideo nō valet arᵐ.ſꝫ bñ ſeqt̄:iſta ſunt oīno ꝯſilr diſpo/
ſita ⁊ veloci' ꝓpor' maiorat̄ ꝓpor° medietatis itēſioris ſu
ſcilꝫ q̄ntitatiue ⁊ qualitatiue. pra remiſſiorē ꝑ rarefactiōeꝫ vni' q̄ꝫ alteri'.igit̄ illud ve/
locius intēdet̄:vbi tñ illa nō ſunt ꝯſilr diſpoſita nō valet
5ª ꝯcl'o arᵐ:vt ꝑus argutū eſt.¶ Un̄ hec ꝯ̄ eſt ꝯcedēda:ꝙ.a.⁊.b.
ſunt eq̄lis q̄ntitatis:⁊ ſub eodeꝫ gradu vel ꝯſili q̄rū ꝑ ptes
eq̄les eq̄li velocitate alterabunt̄ ꝑ rarefactiōeꝫ:que rare/
factio facit totalr ad tot' itēſionē:⁊ tñ vnū alio ꝯti' in du/
plo velocius itēdet̄.¶ Sit eniꝫ.a.tale:cui' vna medietas
ſit ſūme calida:⁊ alia ſūme frida:⁊.b.tale:cui' vna medie/
tas ſit calida in gradu medio totius latitudis caliditatis
nō admixta cuꝫ ſuo ꝯtrario:⁊ alia medietas ſit frigida in
gradu medio nō admixta ſuo ꝯtrario.ſ.caliditate:⁊ rare/
fiāt ambe medietates calide.a.b.c.gradu velocitatis cō/
tinue:⁊ ſint cetera paria.





Tūc ex iſto caſu ſequunt̄ oēs ptes ꝯcl'onis imediate ꝑter
vltᵃᵐ:que ſic ꝓbat̄.a.b.incipiūt caleſieri a nō gradu eē ca/
lidi:q2 neutrū nūc eſt calidū:⁊.a.ꝯti' erit in duplo calidi'.
g̃ in duplo velocius ꝯti' caleſiet.a.q̄ꝫ.b.maior pꝫ ex caſu.
⁊ minor ꝓbat̄ ſic.capiat̄ illud inſtās gratia exēpli in quo
vtrūq3 erit in duplo maius q̄ꝫ nūc eſt:tūc in illo iſtāti erit
vna medietas.a.ſūme calida:⁊ alia neq3 calida neq3 frigi
da:vt ꝯſtat.⁊ tūc erit vna medietas.b.calida in g̃du me/
dio:⁊ alia neq3 calida neq3 frigida:vt pꝫ.igit̄ tūc erit.a.in
duplo calidi'.b.ꝯña ꝓbat̄ ſic.ponat̄ ꝙ in illo iſtāti inci/
piāt medietates calide.a.b.remitti:⁊ ſic vnifor' ⁊ eq̄uelo'
remittant̄ ad nō gradu:ſtātib' aliqs medietatib' nec cali/
dis nec fridis.⁊ ſeqt̄ ꝙ iᵃ medietas.b.in duplo citius deue
niet ad nō gradum q̄ꝫ illa medietas.a.q2 erit tūc in duplo
ꝓpinquior nō gradui q̄ꝫ medietas.a.vt pꝫ:⁊ remiſſis illis
medietatib' ad nō gradū erit vtrūq3 nō calidū vt ꝯſtat.
igit̄ in duplo citius deueniet.b.ad nō gradū eſſe calidi q̄ꝫ
a.⁊ equalr remittet̄:q2 per ptes eque ꝓportionales eodē
gradu.igit̄ in illo inſtāti dato erit.a.in duplo intēſius.b.⁊
ꝯſilr pōt argui de q̄libet alio inſtāti.igitur ꝯcedit̄ ꝯcluſio.
¶ Cōtra.equalis erit ꝯtinue ꝓportio ptis calide.a.ad par 3 ꝯ̄nem
teꝫ ſui' frigidā:ſicut.b.⁊c̄.igit̄.a.⁊.b.ꝯtinue erūt equalr ca/
lida.Silr.a.⁊.b.nō alterabunt̄ niſi per rarefactiōeꝫ. Cuꝫ 2.
g̃ per equalē ꝑtē equalr rareſient.apparet g̃ ꝙ equalr al/
terabunt̄.¶ Ad pᵐ argᵐ negat̄ ꝯña:ꝙ lꝫ ſit eq̄lis ꝓpor/ Ad pᵐ.
tio ⁊c̄.tñ q̄libet pars calida.a.per totū in duplo plus fa
ciet ad denoiationē.a.q̄ꝫ equalis pars.b.ad denoiatōeꝫ.b.
¶ Ad 2ᵐ argᵐ negat̄ ꝯña ꝓpter ꝯſileꝫ cām. Aliqua ra/ Ad 2ᵐ
refactio ſimul īpediet ⁊ iuuabit ad intēſionē alicuius cali/ 6ª ꝯcl'o
di.Or hec ꝯcluſio ſit īpoſſibilis pꝫ manifeſte.Ad quaꝫ ꝓ/
bādā ponat̄ ꝙ.a.ſit tale:cui' vna medietas ſit ſūme cali/
da:⁊ alia remiſſe calida:⁊ rareſiat medietas ſūma:⁊ cōdē
ſetur medietas remiſſa vniformiter ad non quātum.



Tūc ſic iᵃ rarefactio cōti'
iuuabit ad intēſionē.a.q2
ſilr rarefactio medietatis
intēſioris diffor' iuuat ad
ei' intēſionē:vt pꝫ per po/
ſitionē:⁊ aliq̄n impediet:
eo ꝙ tāteꝫ itenⁿᵉᵐ acq̄re/
ret.a.in iᵃ hora ſi nō rare/
fieret ſicut iaꝫ acq̄ret.Sꝫ
aliq̄n in iᵃ hora minorem
itenⁿᵉᵐ acq̄reret q̄ꝫ ſi nō rareſieret.igit̄ aliquā minorē la/
titudinē acq̄ret q̄ꝫ ſi nō rareſieret:⁊ per ꝯſequens rarefa/
ctio aliq̄n īpediet.Et ꝙ ꝯtinue iuuabit arguit̄ ſic:q2 ſi nō
det̄ tēpus per qd nō:⁊ ſit nūc gr̃a argumēti pᵐ illi' tp̄is
ꝯtra.in fine illi' tp̄is erit.a.intēſius q̄ꝫ ſi nō rareſieret per
illud tēpus:q2 erit maior ꝓportio ptis ſūme ſupra ꝑtē re
miſſam q̄ꝫ eēt ſi nō rareſieret.igit̄ per illud tēpus vel per
aliquā eius ꝑteꝫ illa rarefactio iuuabit:⁊ ſic pro omni tē/
pore eſt

poꝛe eſt arguẽdũ. ¶ Pro iſto negat̃ ɔcluſio: ꝛ pars 2ᵃ ɔceditur ꝛ negat̃ p̄ma. ꝛ ad argᵐ negat̃ ɔñia: q2 ſi medietas ſũme calida nõ rareficeret: tũc ɔdẽſatio ptis remiſſe plus faceret ad totius intẽſionẽ q̃ nũc faciet. Et ideo pro caſu dicit̃ ꝙ ɔtinue velocius intẽdet̃. a. q̃ ſi pro tũc nõ rareficeret: ꝛ pro omni inſtãti erit hec ꝓpoſitio vera: velocius intẽdit̃. a. q̃ ſi nõ rareficeret: nõ tñ ɔtinue velocius intẽdet̃: q̃ ſi ab initio nulla fuiſſet rarefactio: ex quo tñ nõ ſequit̃ ꝙ rarefactio impediat: q2 hoc ſolũ eſt: q2 pars remiſſa mi-

7ᵃ ɔclo nus faciet per cõdẽſationẽ ꝛc̃. ¶ Aliqđ eſt calidũ infinite intẽſum: ꝛ vna medietas eſt vniformis ſub aliq̊ certo gradu: ꝛ alia nec calida nec frigida. Sit. a. vnũ tale: cuius vna medietas ſit vniformis. c. gradu: ꝛ extẽdant̃ per aliaʒ medietatẽ ĩfinite caliditates ĩfinite ĩtẽſionis: ꝛ ĩfinite fridita-tes infiᵗᵉ intẽſionis. Tũc ꝙ. a. ſit calidũ ꝓbo ſic. ſi vna medietas eẽt ſub. c. gradu: ꝛ alia medietas hrẽt finite ꝛ equaliter de caliditate ꝛ frigiditate totũ eẽt calidũ: vt notũ eſt iuxta hãc poſitionẽ. ꝛ ſi intẽderent̃ iſta caliditas ꝛ illa frigiditas in ĩfinitũ equevelociter ɔtinue maneret eque calidũ ſicut nũc eſt. igit̃ ſi infinite tales caliditates ꝛ frigiditates ſibi addant̃ totuʒ ɔtinue maneret calidũ: ꝛ per ɔſequens ipſum nũc eſt calidũ. Uel ſic. ex quo iſta medietas nec eſt calida nec frigida nõ plus impediet totius denoĩationeʒ q̃ ſi eſſet mã nõ qualificata: ꝛ tũc eſſet calidũ. ergo ꝛ nũc eſt calidũ. Dato igit̃ ꝙ vna illaꝝ caliditatũ infinite intẽſarũ extẽderet̃ per medietatẽ calidã: ſicut nũc eſt per aliam: totũ eẽt ĩfinite calidũ: q2 tũc vna medietas eẽt infinite calida: ꝛ alia nec calida nec frigida: ſʒ nũc eſt. a. eque intẽſuʒ ſicut eẽt tũc: q2 nũc facit illa caliditas infinita tñ ad totius denoĩationẽ ſicut tũc faceret: eo ꝙ per tãtũ nũc extẽdit̃ ſicut tũc extenderet̃. ergo ꝛc̃. Ideo dicit̃ negãdo ɔcluſionẽ: ꝙ ſi medietas vna ſit finite calida: ꝛ alia nec calida nec frigida/ denoĩatio nõ erit infinita: q2 caliditas illa in medietate calida nõ tãtum denoĩabit totũ ſicut illã medietateʒ: nec alia medietas aliqđ denoĩabit. igit̃ ꝛc̃. Et ad caſum adiquirit̃ de imaginatione: ꝛ dĩ ꝙ. a. nõ erit calidũ: q2 per idem põt ꝓbari ꝙ. a. eſt frigidũ: ſicut ſi vna illarũ infinitaꝝ frigiditatũ vniformiter extẽderet̃ per medietatẽ calidã. vna enim medietas tũc eſſet frigida: ꝛ alia nec calida nec frigida. Unũ tamẽ regula obſeruet̃: ꝙ vbicũq₃ eſt aliqua qualitas que infinite denoĩaret ſuũ ſubiectuʒ deducto ſuo ɔtrario manẽte illa quãtumcũq₃ addat̃ de qualitate ɔtraria nunq̃ totũ ſubiectũ modo ɔtrio denominabit: q2 impedimẽtũ ibi eſt infinitũ: ꝛ nullũ infinituʒ eſt alio maius: ideo nõ ſequitur vna medietas eſt calida: alia nec calida nec frigida. igit̃ totuʒ eſt calidũ niſi addatur in antecedẽte ꝙ ibi nõ ſit frigiditas ĩfinita. ¶ Et ideo quãdo dicit̃ in argumẽto: ſi tam caliditas q̃ frigiditas in ĩfinitũ intẽderet̃ totuʒ maneret ſemꝑ eque intẽſum ſicut nũc eſt. ¶ Negat̃ illud: quia in infinitũ augebit̃ impedimẽtũ quo nullũ iuuamẽtũ põt eſſe maius. ¶ Et ad aliud quãdo aſſumit̃ ꝙ nunc eſt eque intẽſum. a. ſicut ſi medietas nõ calida neq₃ frigida eſſet nõ qualificata. hoc eſt negãdum: q2 nũc eſt impedimẽtũ poſitiuũ infinitũ ſicut nõ tũc eſſet. ¶ A. b. ſunt inequeintẽſa: ita ꝙ. a. eſt infinite in-

Regula de q̃litate tãtũ ſubm denoiãte

8ᵃ ɔclo tenſum: ꝛ. b. infinite remiſſum: ꝛ quelibet pars. a. eſt eque intẽſa cuʒ parte correſpõdẽte. b. Sint. a. ꝛ. b. infinita extẽſiue: ꝛ ſit quelibet pars pedalis in. a. diſpoſita latitudine infinita: ꝛ ſic extendat̃ ꝙ quelibet pars pedalis correſpõdeat gradui finito qui ſit. c. ſic enim poteſt extẽdi: vt ꝓbatuʒ eſt in p̄ma ɔcluſione eſſe poſſibile. ꝛ ſit quelibet pars pedalis. b. diſpoſita latitudine terminata ad nõ gradum: ita ꝙ correſpõdeat etiã. c. gradui: ꝛ extẽdat̃ extremũ infinitum latitudinis illius in q̊libet pedale. a. verſus ĩfinitũ: ꝛ nõ gradus latitudinis cuiuſlibet pedalis. b. verſus infinitũ extremũ. b. Et ſupponit̃ ꝙ ſi ſit aliqđ infinitũ diſpoſituʒ aliqua latitudine ꝙ totũ in nulla ꝓportione ſit intẽſius vel remiſſius q̃ gradus extẽſus in infinitũ. ĩfinita. n. pars per infinitũ modicum diſtat a gradu tali in infinitũ ꝓcedẽte: tũc. a. eſt ĩfinite intẽſum: q2 gradus ĩfinitus extẽdit̃ verſus ĩfinitũ in. a. ɔſequẽtia tenet per ſuppoſitionẽ: ꝛ per illud. b. eſt ĩfinite remiſſum: ꝛ ꝙ quelibet pars pedalis. a. ſit eque intẽſa cuʒ qualibet pte pedali. b. correſpõdẽti ponit caſus. ¶ Pro iſto ɔcedat̃ caſus de pedalibus ɔtinue numerãdo ab extremo finito. ꝛ negat̃ ſuppoſitio: q2 totũ. a. nũc eſt eque intẽſuʒ ſicut ſi q̊libet pedale eius ad vniformitatẽ. c. gradus adduceret̃: eo ꝙ quelibet pedalitas. c. gradui correſpõdet: ꝛ ſic etiaʒ eſt de. b. ſed de latitudine ɔtinua eſt ſuppoſitio admittẽda. ꝛ h̃ ꝓbat argumẽtuʒ. Sed hic in omni pedali eſt tota latitudo vt. c. ꝛ ſic nõ eſt veruʒ ꝙ ĩfinita pars per ĩfinite modicũ diſtet ab infinito ꝛc̃. ¶ A. eſt ĩfinite intẽſum: ꝛ. b. ſolũ finite intẽſum: et

9ᵃ ɔclo a. tãtum ɔtinue deꝑdet ſicut. b. ꝓciſe: ꝛ per tãtũ ſubm: ꝛ. a. remittet̃ ad nõ gradum: ꝛ nõ. b. Sit. a. ĩfinitũ quãtitatiue: cuius p̄ᵐ pedale habeat per totũ ĩfinitas caliditates eque intẽſas. ꝛ per 2ᵐ pedale extẽdant̃ ĩfinite caliditates: quarum quelibet ſit ſubdupla ad quãlibet caliditatẽ p̄mi pedalis. ꝛ per 3ᵐ pedale extẽdant̃ infinite caliditates: quaꝝ quelibet ſit ſubdupla ad vnã illaꝝ que per 2ᵐ pedale extẽderet̃: ꝛ ſic in infinitũ. Et ſit. b. aliud ĩfinituʒ quãtitatiue habẽs duas tales caliditates per totum: quales extẽdunt̃ per p̄mũ pedale. a. ꝛ vnã aliam ſubduplã ad 1ᵃᵐ per totũ: ꝛ iterũ aliam ſubduplã ad 1ᵃᵐ: ꝛ ſic in ĩfinitũ. ꝛ in p̄ma pte ꝓportionali hui⁹ hore deꝑdat p̄ᵐ pedale. a. vnã ſuaꝝ caliditatũ. ꝛ in 2ᵃ pte ꝓportionali deꝑdat 2ᵐ pedale p̄ᵃᵐ ſuaꝝ caliditatũ: ꝛ p̄ᵐ deꝑdat 2ᵃᵐ calitatẽ. ꝛ in 3ᵃ pte ꝓportionali deꝑdat 3ᵐ p̄ᵃᵐ ſuaꝝ caliditatũ: ꝛ 2ᵐ 2ᵃᵐ: ꝛ p̄ᵐ 3ᵃᵐ: ꝛ ſic in ĩfinitũ: ita ꝙ deꝑdita vna caliditate illaꝝ deꝑdat̃ caliditas ſibi ꝓxima in numero: ꝛ ſic ſine fine. ꝛ in p̄ᵃ parte ꝓportionali hui⁹ hore deꝑdet p̄ᵐ pedale. b. vnã illaꝝ caliditatũ intẽſiſſimaꝝ quas hʒ per totũ ſtãte alia vt ſit gr̃a argumẽti vtraq₃ iſtaꝝ duaꝝ vt. iiij. tũc iſtud p̄ᵐ pedale deꝑdet. iiij. ſicut p̄ᵐ pedale. a. ꝛ in 2ᵃ pte ꝓportionali illi⁹ hore deꝑdat 2ᵐ pedale. b. vnã illaꝝ caliditatũ intẽſiſſimaꝝ per totum ipſm. ſ. vt. iiij. ꝛ p̄ᵐ tũc deꝑdat caliditatẽ ſubduplã ad p̄ᵃᵐ: ꝛ in 3ᵃ pte ꝓportionali hore deꝑdet 3ᵐ pedale. b. vnã caliditatẽ vniformẽ vt. iiij. per ipſm. ꝛ 2ᵐ pedale calitatẽ ſubduplã. ꝛ p̄ᵐ pedale aliã ſubduplã ad illã quã deꝑdet 2ᵐ. ꝛ ſic in ĩfinitũ: tũc. a. eſt ĩfinite intẽſum: q2 quelibet pedalis q̃titas eius eſt ĩfinite intẽſa: q2 p̄ᵐ pedale hʒ ĩfinitas caliditates: quaꝝ q̊libet eſt vt. iiij. per totũ. g̊ p̄ᵐ pedale eſt ĩfinite intẽſum: ꝛ ita arguẽdũ eſt de omni alio pedali. g̊. a. eſt ĩfinite intẽſum: ꝛ. b. ſolũ finite intẽſum: q2 eque intẽſuʒ ſicut ſi hrẽt tres tales caliditates per totũ ſicut ille due caliditates ĩtẽſiſſime: quarum. ſ. vtraq₃ eſt vt. iiij. q2 caliditas ſubdupla ad vnã illaꝝ in duplo minus facit ad totius intẽſionẽ q̃ caliditas vna illaꝝ: vt pʒ. ꝛ 3ᵃ in quadruplo minus: q2 eſt in q̃druplo remiſſior: ꝛ ſic in ĩfinituʒ. g̊ oẽs caliditates ꝑter illas duas tãtũ faciẽt ad totius ĩtẽſioneʒ ſicut vna 1ᵃᵐ. ɔñia tenet ſicut de q̃titate ſeu de quãto. Nã q̃titas 2ᵉ ptis ꝓportionalis eſt ſubdupla ad p̄ᵃᵐ ꝛ 3ᵃ ſubquadrupla ꝛ ſic deinceps: ꝛ totũ ꝑter p̄ᵃˢ pteʒ ꝓportionale eſt equale p̄ᵉ pti. ſic igit̃ eſt de intẽſione. ſeqt̃ igit̃ ꝙ. b. eſt ſolũ finite intẽſum. Et ꝙ. b. ɔtinue tãtũ ꝑdet ſicut. a. ꝛ per ptes equales ꝓʒ: q2 in p̄ᵃ pte ꝓportionali deꝑdet. b. per p̄ᵐ ſuuʒ pedale quãtũ. a. per p̄ᵐ ſuũ pedale: q2. iiij. vt ponit caſus: ꝛ tũc ſolũ per p̄ᵐ pedale deꝑdet vtrũq₃ caliditatẽ: ꝛ in 2ᵃ pte deꝑdet. b. tãtũ per 2ᵐ pedale ſicut. a. per p̄ᵐ ſuũ pedale: q2. iiij. vt ponit̃: ꝛ per p̄ᵐ pedale tũc deꝑdet. b. tãtuʒ ſicut. a. ꝑ 2ᵐ ſuũ pedale: q2 2ᵃ: ꝛ ſic in infinitũ. g̊ ꝛc̃. Et ꝙ. a. remittat̃

ad nõ gradus pꝫ:q2.a.ꝺeꝑdet ſm omne ei9 pedale oẽs ei9
calidi^tates que ſunt in eodẽ:vt pꝫ per caſum.igiẽ totũ.a.re
mitteẽ ad nõ gradũ:⁊.b.in fine hẽbit vnã illaꝝ calidi^tatum vt
iiij.per totũ vt ꝯſtat.igiẽ ſeqẽ ꝯcluſio.❡ Jdeo ꝯcediẽ cõ
cluſio de imaginatiõe:q2 vtrũqꝫ hꝫ ĩfinitas calidi^tates:quaꝝ
q̃libet eſt vt.iiij.ideo.b.põt ꝯtinue deꝑdere calidi^tates vt.iiij.
duꝫ tñ maneat in fine calidi^tas vt.iiij.per totũ:⁊ eo mõ põt
deꝑdere φ nihil in fine remanebit:vt nũc ꝯſtat de.a.ideo
10ª ꝯclo imaginabilis eſt ꝯcluſio ⁊c.❡ A.eſt ĩfinite remiſſe calidũ
vel nõ calidũ:⁊ ꝓportionabiliẽ ſicut ſua caliditas extẽdeẽ
per ptes minores:ita aliqua eius pars ꝓportionabiliẽ fiet
ĩtẽſior:⁊ in fine erit infi^te ĩtẽſe calidũ.❡ Cõtra 1^m argu^m per
eãdẽ põnem:q2 1^a po^s oppo^m vt apparet.Cõ tñ iſta ſequatẽ
argu^r ſic.deẽ.a.ĩfi^te q̃tũ:cui9 p^m pedale ſit aliqualiẽ calidũ ⁊
pars q̃drupla ad illaꝫ ſibi ĩme^ta in duplo minus calida:⁊
alia pars ĩme^ta illi in q̃druplo maior 1ª ſit in duplo remiſ
ſior illa:⁊ ſic in infi^m ſemꝑ q̃druplãdo numerũ pedaliũ ⁊
ſubduplãdo intẽſionẽ in calidi^te ⁊ fluat 1ª calidi^tas extẽſa per il
la.iiij.pedalia p̊ ſignata q̃uſqꝫ extendaẽ per 2^m pedale to
tius:⁊ illa q̃litas que extẽdiẽ per illa.xvi.pedalia extẽdaẽ
ꝑ 3^m pedale toti9.a.⁊ ſic ponaẽ deinceps:⁊ ponaẽ φ ꝓpor
tionabiliẽ ſicẽ caliditas alicui9 ptis.a.ꝑ minorẽ ptẽ extendaẽ:
ita fiat intẽſior q̃ꝫ nũc.Et φ nũc hoc.a.ſit ĩfinite remiſſuꝫ:
pꝫ:q2 hꝫ ĩfinitã ptẽ infinite remiſſam:⁊ reſiduũ eſt ſolũ fi
nite calidũ ſicẽ ꝯſtat:⁊ ꝓportionabiliẽ ſicẽ caliditas alicuius
ptis extẽdeẽ per partẽ minorẽ:ita fiet intẽſior vt poniẽ in
caſu:⁊ φ in fine erit totũ ĩfinite calidũ pꝫ.❡ Et ad ipſius
Nota re gulas ꝓbationum. ꝓbationeꝫ eſt notãdũ φ ſi forẽt duo equalia que deberẽt
maiorari per aliq̃s ꝓportiones:ita φ in fine ꝓportio vni9
ad ſeipm in p̊n^o eẽt maior ꝓportione alteri9 in fine ad ſe
ipm in p̊n^o per ꝓportionẽ quadruplã:vnũ in fine ad aliud
eẽt quadruplũ.ſit enĩꝫ.a.illud qð fiet maius:⁊.b.aliud:tũc
in fine ꝓportio.a.ad gradũ ſub quo nũc ſunt.a.b.cõponeẽ
ex ꝓportione.a.ad.b.⁊ ex ꝓportione.b.ad eũdẽ gradũ.cũ
igiẽ ꝓportio.a.ad illũ gradũ excedit ꝓportionẽ.b.ad eũdẽ
gradũ per ꝓportionẽ quadruplã.ſeqẽ φ erit ꝓportio qua
drupla.a.ad.b.q2 ꝓportio.a.ad illũ gradũ nõ excedet ꝓ
portionẽ.b.ad illũ niſi per ꝓportionẽ illã que erit.a.ad.b.
vt ſatis pꝫ:vbi ponũẽ regule de motu locali.e^x.g.ſi illud
qð eſt in p̊ncipio ſit vt vnũ ⁊ augmẽtabiẽ ad duo:⁊ aliud
augmẽtabiẽ per ꝓportionẽ quadruplã ſupra illã per quã
augmẽtabiẽ aliud.ſequiẽ φ illud qð in ꝓpor^e quadrupla
ſupra aliud augmentabiẽ erit vt.viij.in fine. Hoc habito
ſic arguiẽ.Jn fine erit p̊^m pedale.a.aliqualiẽ ĩtẽſuꝫ:⁊ 2^m in
duplo intẽſius:⁊ 3^m in duplo ĩtẽſius q̃ꝫ 2^m:⁊ ſic in ĩfinituꝫ.
igiẽ totũ eẽt tũc ĩfinite intẽſuꝫ.añs arguiẽ ſic.2ª pars cali
da eſt in duplo remiſſior p̊ciſe q̃ꝫ p̊^m pedale:⁊ eſt in q̃dru
plo maior:⁊ ſua caliditas erit in fine in q̃druplo ĩtẽſior q̃ꝫ
nũc eſt:q2 ſolũ tũc extẽdeẽ per pedale.ḡ tũc erit caliditas
ſcði pedalis in duplo intẽſior q̃ꝫ caliditas p̊mi.❡ Siliẽ 3^a
pars calida eſt in quadruplo maior q̃ꝫ 2ª pars calida:cui9
caliditas in fine extẽdeẽ per pedale ſolũ.⁊ ſicut ꝓportio
nabiliẽ extẽdeẽ per ſubm minus:ita fiet ĩtẽſior.igiẽ ꝓpor
tio per quã fiet ĩtẽſior caliditas 3^e ptis q̃ꝫ nũc eſt:excedet
ꝓportionẽ per quã fiet caliditas 2^e ptis date intẽſior per
ꝓportionẽ quadruplã q̃ꝫ ſi nũc eẽnt ille due calidi^tates equa
les:pꝫ φ caliditas 3^i pedalis eẽt tũc quadrupla ad calidi^tatem
2^i pedalis:iuxta illud nõbile p̊ ꝓpoſitũ.ſed nũc eſt illa ca
liditas 3^e ptis in duplo remiſſior q̃ꝫ caliditas 2^e.igiẽ in fi
ne erit caliditas illi9 tertij ſolũ in duplo intẽſior calidi^te ſe
cũdi:⁊ ita de oĩbus duab9 alijs ptib9 imediate ſignatis eſt
arguendũ.igiẽ ſeqẽ ꝯcluſio:que põt ꝯcedi de imaginatio
ne. Et cã eſt:q2 nulla pars finita finite intẽſa reſpectu to
tius infiniti aliqd cõferet:q2 nullã habet ꝓportionẽ ad il
lud infinitũ:ſi tñ ſubm eſſet finitũ ꝯcluſio nõ foret imagi

nabilis:q2 tũc ꝯcluſio imediate repugnaret illi poſitioni:
q2 tũc quelibet pars in cõparatiõe ad totũ ꝯferet aliquã
tum:⁊ ſic nõ eſt nũc:ideo nullũ argu^m ꝓcedit de infinito ſi
cut faceret de finito. ❡ Aliqua duo ſunt eq̃lia:quoꝝ par 11ª ꝯclo
tes equales ſunt eque intẽſe p̊ciſe:⁊ totus reſiduũ vtriuſqꝫ
eſt nõ qualificatũ:⁊ tamen vnũ eſt alio in duplo intẽſius.
❡ Cõtra quã ſic arguiẽ.Si vtriuſqꝫ ptes eq̃les ſunt eque
intẽſe.ergo equaliẽ totũ ſubm denoiabũt:vel neutrũ aliq̃
liter denoiabũt:que tñ cõcluſio ſequiẽ ex poſitione ſic ar
guiẽ.ſint.a.b.duo pedalia:⁊ ſit vna medietas.a.calida ſub
certo gradu:⁊ totum reſiduũ nõ qualificatũ:⁊ ſit vna me
dietas.b.in duplo remiſſior q̃ꝫ illa medietas.a.⁊ reſiduuꝫ
nõ qualificatũ:⁊ rareſiãt medietates nõ qualificate in in
finitũ:⁊ intẽdanẽ alie medietates:ita φ ꝓpter rarefactio
neꝫ neutrũ intẽdaẽ nec remittaẽ.qð videẽ poſſibile:eo φ
quãtuꝫ tollet huius rarefactio de toti9 intẽſione tãtuꝫ põt
intẽſio illi9 caliditatis tribuere de intẽſione:quo poſito in
fine erit ꝯcluſio vera:quia tũc hec pars erit vera.a.b.ſunt
duo equalia:q2 vtrũqꝫ tũc erit ĩfinitũ:⁊.a.tũc erit in duplo
intẽſius.b.q2.a.nũc eſt in duplo intẽſius.b.⁊ neutrũ intẽ
deẽ nec remitteẽ.ergo in fine erit.a.in duplo intẽſius.b.⁊
tũc ptes calide.a.⁊.b.erũt equales per totuꝫ:q2 ſemipeda
lis quãtitas vtriuſqꝫ.⁊ iſte ptes erũt eque intẽſe:q2 vtraqꝫ
tũc erit ĩfinite intẽſa:qð ſic arguiẽ.Si ille ptes eẽnt finite
intẽſe:nihil ad totius denoiationẽ cõferẽt vt p̊dictũ:⁊ etiã
reſpectu alicui9 finiti aliquãtuluꝫ cõferẽt:⁊ reſpectu alte
rius in duplo maioris:in duplo minus cõferẽt ꝓpter ma
iorationẽ ꝓportionis illaꝝ partiũ in cõparatiõe ad totũ:
vt cõſtat per poſitionẽ.igiẽ reſpectu ĩfiniti nihil cõferũt.
igiẽ cum totũ nõ ĩtẽdeẽ nec remitteẽ ꝓpter rarefactioneꝫ
ptis nõ qualificate in ĩfinituꝫ:⁊ ꝓpter ĩtẽſionẽ ptis remiſ
ſe:ſequiẽ φ ſicut illa pars nõ qualificata maiorabiẽ in in
finitũ:ita relinquiẽ φ pars qualificata intẽdaẽ in ĩfinitũ.
12ª ꝯclo ſequiẽ ḡ ꝯcluſio.❡ Ex h̃ etiã deduciẽ φ.a.b.equalia hñt
ptes qualificatas p̊ciſe eque ĩtẽſas per totũ:⁊ pars.b.per
totũ intẽſa erit in duplo maior pte.a.ſm ſe totuꝫ intẽſa:⁊
tñ ideꝫ.b.eſt in duplo remiſſius.a.h̃ videẽ repugnare po
ſitioni vt p̊us.❡ Et hãc arguiẽ ſeq.ponaẽ enim de.a.b.vt
p̊us.p̊ter hoc φ.b.ſit in duplo maioris q̃titatis q̃ꝫ.a.⁊ ha
beat.b.q̃litatem per medietatẽ ſui in duplo remiſſiorẽ q̃ꝫ
a.habet per ſui medietatẽ:⁊ fiat maioratio ptiũ nõ quali
ficataꝝ.a.⁊.b.in ĩfinitũ:⁊ intẽdanẽ qualitates illoꝝ:ita q2
illa nõ ĩtẽdanẽ nec remittanẽ:⁊ ſequiẽ φ in fine erit.b.in
duplo remiſſius.a.q2 nũc eſt.b.in duplo remiſſi9.a.⁊ neu
trũ intẽdeẽ nec remitteẽ per caſum:⁊ in fine erit pars.b.
ſm ſe totã qualificata in duplo maior q̃ꝫ pars qualificata
a.q2 iſta erit pedalis:⁊ pars q̃lificata.a.ſolũ ſemipedalis
vt poniẽ:⁊ ille ptes.a.b.ſm ſe totas qualificate erũt eque
intẽſe.ḡ ſequiẽ ꝯcluſio.❡ Cõſiliẽ arguiẽ oĩo φ.b.tũc erit
in duplo ĩtẽſius.a.q2 qualitas que tũc erit per ſemipeda
le.b.tãtũ faciet ad toti9 intẽſionẽ:ſicut iſta qualitas per ſe
mipedale.a.faciet ad ĩtẽſionẽ.a.eo φ erũt eque ĩtẽſe qua
litates:⁊ tãtuꝫ tũc faciet qualitas extẽſa per vnũ ſemipe
dale.b.ſicut per aliud:q2 ꝯſilis eſt per vnũ ſemipedale.b.
ſicut per aliud.ḡ in duplo plus faciet tũc tota qualitas.b.
ad eius intẽſionẽ q̃ꝫ tota qualitas.a.ad ĩtẽſionẽ.a.ergo ſe
Rñº ad duas ꝯ/nes. quunẽ ꝯdictiones.❡ Pro iſtis negaẽ vtraqꝫ ꝯcluſio:⁊ diẽ
φ in fine nec.b.nec.a.erit calidũ.vnde caſus eſt poſſibi
lis:φ.ſ.pro omni inſtãti citra finẽ tam.a.q̃ꝫ.b.maneat ꝯti
nue eque intẽſuꝫ ſicut ipſũmet nũc eſt:nõ tñ in fine:q2 il
la rarefactio in fine plus tolleret q̃ꝫ poneret aliqua quali
tas finita per illud ſemipedale.ideo nulla qualitas finita
nec ĩfinita plus põt denoiare totũ q̃ꝫ mã 1ª inſipita impe
dit:que.ſ.qualitas per ſubm ſolũ finitũ extẽdit.❡ Cõtra
hãc reſpõſionẽ forte ſic arguiẽ.ſit.a.ĩfinitũ hñs caliditatẽ
vniformẽ

vniformē per totum: et ponat q quelibet caliditas que in aliqua pte pedali extēdit: extēdat per pᵐ pedale. et apparet q qlibet caliditas in fine equalr totuz denoiabit sicut in pnº &c. g rñsio falsa. Aliis arguit: eo q quelibet illaʒ tūc
Rñsio per equale subm extēdet sicut in pnº extēdit. ¶ Pro quo dī vt pats q nulla illaʒ caliditatū que per pedale seu per finitū extēdit: aliqd ad totius intēsione addit. Sʒ tota caliditas extēsa per totū seu per infinitū totū facit intēsiue: accipiēdo ly totū catbe. et ideo est falsuʒ q tūc quelibet illaʒ caliditatū faciat equalr ad totius intēsionē sic nunc: qz iplicat qualibet illaʒ nunc aliqd facere. et si loquamur de tota caliditate: que tūc extendet per pedale solū: et per ɔñs nō per tātuʒ sicut in pnº: et sic nō pcedit argᵐ. ¶ Infinita quasi sophiᵐᵃ possunt fieri de infinito que oīa si diligēter inspexeris q nullius ptis ad totū infinitū est aliqua
13ª pclo pportio: facilr dissoluere poteris per pdicta. ¶ Aliquid post hoc ifinite tarde intēdit qd ptinue infinite velociter intēdet. sint enim ifinita passa equalia et psilia: quoꝝ vnū incipiat alterari vniformiter per partē ante partē gradu aliq: et aliud per ptez ante partē gradu duplo: et aliud gradu quadruplo et sic deinceps: ita q vniformiter et eque velociter pgrediant alterationes ille: tūc arguit sic. Immediate post hoc infinite tarde qdlibet illoꝝ intēdet: qz per partē post partē: et cōtinue post hoc in infinituʒ velociter intēdet aliqd illoꝝ. igit &c. negat pclusio et pª cōsequētia.
14ª pclo ¶ Aliqd passum per totā illā horā ifinite tarde intēdet. ponat casus posit prius. Sʒ ponat q sicut pportionabiliter vna alteratio est ptinue alia intēsior sic tardius pgrediat: ita q oīa cōtinue eque velociter alterent: tūc sequit q oīa illa passa equalr incipiāt intēdi: et cōtinue eque velociter alterabunt: sed cōtinue ifinite tarde alterabit aliquod illoꝝ: qz cōtinue alterabit aliqd illoꝝ ita tarde sicut iam incipit alterari: et per ɔñs qdlibet illoꝝ infinite tarde cōtinue intēdet. Silr pro ɔne ponat q aliqd incipiat alterari per partez ante partē certo gradu et remittat sua alteratio: ita q pportionabilr sicut alterabit per maiorē partē sic alteret gradu remissiori &c. sequit q ifinite tarde alterabitur: qz ita tarde cōtinue sicut iam incipit. g &c. ¶ Ad pᵐ argᵐ negat q ifinite tarde cōtinue intēdet aliqd illoꝝ: et etiā negat q per ita modicā partē: et ita remisso gradu alterabit aliqd illoꝝ sicut iaʒ incipit: nec sequit q per ita modicā ptez cōtinue alterabit aliqd illoꝝ sicut iam incipit: sʒ per ifinite modicā partē cōtinue alterabit aliqd illoꝝ: et per ifinite modicā ptez ptinue alterabit aliqd illoꝝ: et per ifinite modicā ptez incipiat qdlibet alterari: sʒ sequit oppoᵐ. ¶ Ad zᵐ dī q casus nō est possibilis nisi incipiat alteratio remitti a gradu ifinito: et sic admittat casus: et negat q infinite tarde iam incipit alterari. sʒ certe velociter incipit. vnde lʒ per ifinite modicā ptē incipiat alterari: nō seqt q ifinite tarde &c. qz alteratio est ifi-
15ª pclo nita. ¶ Alique sunt caliditates: quaꝝ qlibet est ifinite remissa vel nō intēsa: et tñ tota caliditas ex his cōposita est ifinita. ¶ Vel seqt ista pclo q alique sunt ifinite qlitates ifinite intēse nō cōicātes: et tñ totū cōpositū ex his est ifinite remissum: vel nō intēsum: vel solū itēsum finite. ¶ Itē seqt q ad oēʒ pūctū huius est ifinite intēsa caliditas sine frigiditate: et tñ totū nō est ifinite calidū. ¶ Cōtra pᵐ arguit sic. si quelibet illaruʒ est ifinite remissa vel nō intēsa tota cōposita ex his nō est ifinite intēsa: sicut si eēnt ifinite qtitates per imaginationē ifinite modice: si eēt aliqua quātitas solum ex his cōposita: illa quātitas nō eēt infinita. ¶ Silr zª pclusio est falsa. Si eīʒ eēnt ifinite quātitates equales nō cōicātes: quaꝝ quelibet eēt ifinita tota ex his cōposita necio esset ifinita. g sic erit de qualitate. ¶ Silr 3ª pclusio est falsa. Si n. ad oēm pūctū sit ifinita caliditas sine frigiditate: quelibet eius pars ifinite denolabit ab illa qlitate. ¶ Et q ɔnes sequant ex positione sic arguit. Capiant ifinite caliditates: quaruʒ quelibet sit ifinita extēsiue: ita q pme illaʒ sit pª qlitas pedalis aliqualr itēsa: et zª in duplo remissior: et sic in ifinitū. et sit pª pedalis zᵉ caliditatis in duplo intēsior q pª pme: et zª in duplo itēsior q zª pme: et sic in ifinituʒ. et sit pª pedalis 3ᵉ caliditatis in duplo intēsior q pª zᵉ: et zª in duplo intēsior q zª eiusdē: tūc sic arguit. Cuiuslibet illaruʒ pars ifinita est ifinite remissa: et totū residuū est solū finite intēsuʒ vt ɔstat. g qlibet illarū vt sic extēdit est ifinite remissa vel nō itēsa: qz si correspōdet certo gradui vt sic extēdit certo gradu vel certa itensiuū subm sufficeret denolare: eo q cum qualitate ɔria nō extēdit vt suppono. g seqt q quelibet illaʒ est ifinite remissa. coextēdant g iste qualitates ifinite adinuicē: pª pedales simul: et scde simul: et sic in ifinitum: ita q ex his fiat vna qualitas: et seqt q tota qualitas ex his cōposita est infinite intēsa: et tūc sequit pª pclusio. ¶ Si forte dī q tota est ifinite remissa: qa habet ifinitā ptē infinite remissam: vel q tota illa qualitas sit solū finita: tūc seqt zª pclusio. nā capiat caliditas cōposita ex oībus pmis pedalibus: et seqt q illa est ifinite intēsa. nā pª pedalis pme caliditatis est aliqualiter intēsa. et pª pedalis scde caliditatis est in duplo intēsior: et sic in ifinitū. g tota ex his cōposita est ifinite intēsa. et sic est etiā de caliditatibus cōpositis ex scdis pedalibus et sic in ifinitū. g quelibet illaʒ caliditatū infinitaʒ sic cōpositaʒ est ifinite intēsa: et tñ tota cōposita ex his est solū finite intēsa: vel nō intēsa iuxta rñsionē. g seqt pclusio zª. ¶ Silr data illa respōsione sequit 3ª pclusio. Nā capiat huius subm infinitū per qd oēs iste caliditates sic coextēse extēdunt: tūc ad oēʒ pūctū huius est ifinita intēsa caliditas siue frigiditas: vt pʒ: qz ad oēm pūctū sunt ifinite huius caliditates: quaꝝ qlibet est intēsior pª illaʒ ad illū pūctū extētie: et tñ totū nō est infinite calidū: qz totū nō est calidū nisi per caliditatē totā: et illa caliditas est solū finite intēsa. g soluʒ finite illud subm denoiabit. ɔñtia tenet. et aūs ponit in rñsione nūc recitata. sequit g pma pclusio vel alie due. ¶ Ideo pª pclusio pōt pcedi sustinēdo q caliditas est itēsior vel remissior pp diuersam extēsionē: sicut rōne diuerse extēsionis suū subm magis vl minus denolat. ¶ Et ad arᵐ qn arguit p silitudinez de qtitate nō pcedit: qz qtuis tota caliditas cuiuslibet illaʒ ifinito remisso gradu correspōdeat ad oēm pūctū tñ itrinsecuʒ est certa intēsio. et ideo facta extēsione taliuʒ qlitatū adinuicē resultabit ad oēm pūctū qlitas ifinita: et per ɔñs tota qlitas erit ifinite itēsa: qz h est ipossibile q in isto subto est tota caliditas solū finite itēsa vel remissa: et tñ nullus est pūctus talis ad quē est certa qlitas: sʒ de qtitate si ipsa eēt ifiᵗᵉ modica nō vbiqz foret certa qtitas. et io arᵐ nō pcedit. ¶ Multa alia possent fieri sophiᵃ p rarefactiōeʒ subti: et p fluxū qlitatis et alteratiōis qlitᵐ si subm dʒ itēdi et remitti p hᵒ rarefactiōeʒ et fluxū et alterationē: ad que oīa ɔsiderādo pportionē totius ad partē: rñsionē elicere poteris ex pdictis faciliter.

¶ Tractatus tertius. De intēsione elementi habētis duas qualitates non eque intensas.

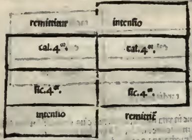
DIcto penes qd attendit itenᵒ rei per vnā qlitatē. restat nunc dicere penes qd attēdat intēsio elmti habētis duas qualitates pᵐ inéque intēsas. Circa quā mātēriā tres sunt positiones. ¶ Prima positio ponit q elmtū illud corrñdet gradui medio per eque distātiā iter illas qualitates. ¶ Scda ponit q est eque intēsuʒ cū qlitate sua remissiori. ¶ Et 3ª ponit q est eque intēsuʒ cū gradu medio pportionali iter illas qualitates. ¶ Contra pᵐ arguit. ex illa sequunt qnqz ɔnes. Prima q aliqd per pª pō
zª
3ª
3 pᵐ positionem 3ª pclones

2 magnũ tẽpus ꝯtinue ĩfinita velocitate aget. ¶ Siliˀr ſeqˀ
3 ꝙ a ꝑportione finita ꝑuenit motˀ ĩfinitus. ¶ Tertia ſeqˀ
ꝙ.a.plus diſtat a nõ gradu ꝗ̃.b.a ſumo ⁊ equeuelociter ⁊
cõtinue remittet.a.ſicut.b.intẽdet:⁊ tñ equecito ꝑciſe re-
4 mittet.a.ad nõ gradũ ſicut.b.intẽdet ad ſumũ. ¶ Quar-
ta nõ eſt poſſibile in mixto ex elĩtis ꝯuenientibꝰ ⁊ in qua-
litatibꝰ ſymbolis vnũ equaliˀr diſtare a nõ gradu ſicut re-
5 liquũ a ſumo. ¶ Quinta.a.ꝯtinue intẽdet.b.⁊ tñ iᵒ.a.re-
ꝯtra pᵐ ꝯnem. mittet illud.b.ad nõ gradũ. ¶ Cõtra pᵐ ꝯnem arguit:qꝛ
nũc iᵒ agẽs ageret ꝯtinue a ꝑportione ĩfinita:⁊ per ꝯñs ſu-
bito corrũpet iᵒ in quo ageret:⁊ ſubito infinitã latitudinẽ
induceret:qꝛ aliqualiˀr velociter agendo in aliq̃ tpe finito
ſuũ paſſũ corrũpet:⁊ etiã in duplo velocius agẽdo in du-
plo citius corrũpet:⁊ ſic in ĩfinitũ.ḡ ſi ĩfinite velociter ꝯti-
nue ageret ſubito ad nõ gradũ ipm corrũpet ſeu remitte-
ret. Qꝛ tñ iſta ꝯclõ ſequat arguit ſic.ponat ꝙ.a.ſit vnus
ignis ſumus agẽs in.b.aerem ſumũ:tũc nõ ſubito aget.a.
per totũ.b.qꝛ citius aget per medietatẽ ꝗ̃ per totum:⁊ ſic
de ptibꝰ aliis:⁊ qꝛ citius aget per ptẽ minorẽ ꝗ̃ per maiorẽ.
Tũc ſic arguit imediate poſt hoc erit ſiccitas ad aliquẽ
punctũ.b.⁊ caliditas cõtinue tũc erit ſuma in.b. Sꝫ ſi ca-
liditas ſit ſuma ⁊ ſiccitas aliquãta ignis ibi eſt ſupra gra-
Suppõit ſo[r]tes ſubſtantiales elemẽtoꝝ itẽdi ⁊ remitti ꝯ͂ opionẽ Comm. dũ mediũ totius latitudinis:eo ꝙ tũc gradus medius in-
ter caliditatẽ ⁊ ſiccitatẽ eſt ſupra mediũ totiꝰ latitudinis.
igit imediate poſt hoc erit in mã ipſius.b.gñatus ignis ſu-
pra gradũ mediũ:⁊ nũc nõ eſt ibi aliqs ignis.igit infinita
velocitate incipit.a.agere in.b.gñando ibi ignẽ:⁊ ꝯtinue
ĩfinita velocitate aget quouſqꝫ actio ſua deueniet per to-
tũ.b.qꝛ poſt qõlibet inſtãs illiꝰ tpis imediate aget in ali-
quã partẽ.b.in quã ante illud inſtãs nõ egit:⁊ per ꝯñs im-
mediate poſt qõlibet inſtãs gñabit ignẽ a nõ gradu vſqꝫ
ad gradũ ſupra mediũ gradũ totiꝰ latitudinis ſicut in pñº
incepit:qꝛ ꝗ̃cito erit actio in aliq̃ pte:ibi erit caliditas ſu-
ma ⁊ ſiccitas aliquãta.cũ igit ꝯtinue aget ſiccitas in ali-
qua pte vbi prius nõ fuit.ſequit ꝙ ꝯtinue gñabit ignẽ a
nõ gradu ad gradũ ſupra mediũ:⁊ per ꝯñs ꝯtinue ſubito
magnã latitudinẽ inducet:⁊ ſi ſic ꝯtinue infinita velocita-
ꝯ 2ᵐ cõcluſionẽ tẽ aget.ergo ſequit ꝯcluſio pma. ¶ Cõtra 2ᵐ ꝯcluſionẽ
ſic arguit. Motꝰ ſeqˀ ꝑportionẽ poˀ ſupra reſiſtẽtiã ſuã.
igit a ꝑportionẽ finita ꝑuenit motus ſolũ finitꝰ.ergo cõ-
cluſio falſa. Sꝫ ꝙ iſta ſequat arguit ſic.a.habet ad.b.ꝑ-
portionẽ finitã:qꝛ.a.eſt ſolũ poˀ finite:⁊.b.reſiſtẽtie fini-
te:⁊ ĩfinita velocitate ꝯtinue aget.a.in.b.vt eſt argutũ in
ꝯtra 3ᵐ caſu tacto.ergo ſequit ꝯcluſio. ¶ Cõtra 3ᵐ ꝯcluſionẽ ar-
guit ſic.Si per plus diſtat.a.a non gradu ꝗ̃.b.a ſumo:ſit
c.vnus gradus a quo.a.equaliˀr diſtat ſicut.b.a ſumo.tunc
ſic:ſi.a.eq̃uelociter remittet preciſe ſicut.b.intẽdet:ſequit
ꝙ equecito.a.deueniet ad.c.gradũ ſicut.b.ad ſumũ.ſed ci-
tius deueniet.a.ad.c.gradũ ꝗ̃ ad nõ gradũ.igit citius de-
ueniet.b.ad ſumũ ꝗ̃.a.ad nõ gradũ.minor pꝫ:qꝛ.c.eſt me-
diũ inter.a.⁊ nõ gradũ. ¶ Qꝛ aũt iſta ꝯcluſio ſeqˀ arguit
⁊ pmo ſic:qꝛ ſi forẽt tria:quoꝝ pᵐ qõ ſit.c.equaliˀr excedit
8.6.4. c.d.e. 2ᵐ qõ ſit.d.ſicut.d.excedit 3ᵐ qõ ſit.e.tũc ſi.c.fieret remiſ-
ſius ſtãte.c.ita ꝙ.d.ſemꝑ foret medium equaliˀr iter.c.e.in
8.5.2. c.d.e. duplo tardius remittet.d.ꝯtinue ꝗ̃.c.qꝛ ſi.d.ſit medium
iter.c.e.per in duplo minus diſtat.e.a.d.ꝗ̃.c.a.c.⁊ ita cõti-
nue foret.ḡ in duplo tardius ꝯtinue ꝑciſe maiorabit diſtã-
tia iter.c.d.ꝗ̃ iter.c.e.⁊ ſic in duplo tardius remittet.d.ꝗ̃
c.qõ fuit ꝓbãdũ. ¶ Ex iſto arguit ꝙ ſequit ꝯcluſio:⁊ po-
nat ꝙ ſit aliqõ mixtũ equaliˀr cõpoſitũ ex igne ⁊ aere:ita
ꝙ humiditas ſit in gradu medio:⁊ ſit ſiccitas ſiliˀr:⁊ ſit cali-
ditas ſuma:⁊ ſit.a.aer iſtiꝰ mixti ⁊.b.ignis:⁊ remittat hu-
miditas ad nõ gradũ ⁊ eq̃uelociter intẽdat ſiccitas.⁊ ſeq-
tur tũc ꝙ.a.per plus diſtat a nõ gradu ꝗ̃.b.a ſumo:qꝛ in-
tẽſio.a.correſpõdet gradui medio iter gradũ mediũ ⁊ ſum-
mũ:qꝛ caliditas eſt ſuma ⁊ humiditas in gradu medio ⁊
elĩtũ correſpõdet gradui medio iter qualitates ſuas pᵐ.igit
ſeqˀ ꝙ.a.eſt ſupra gradũ mediũ totiꝰ latitudinis:⁊.b.ſiliˀr:
qꝛ calitas.b.eſt ſuma ⁊ ſiccitas in gradu medio: ſꝫ omne
qõ eſt ſupra mediũ per plus diſtat a nõ gradu ꝗ̃ aliqd ſu-
pra mediũ diſtat a ſumo:vt pꝫ.igit ſeqˀ ꝙ.a.per plus di-
ſtat a nõ gradu ꝗ̃.b.a ſumo:⁊ equeuelociter ꝯtiˀ remittet.a.
ſicut itẽdet.b.qꝛ.a.in duplo tardius ꝑciſe remittet ꝗ̃ ſua
humiditas:⁊.b.in duplo tardius intẽdet ꝗ̃ ſua ſiccitas:ſꝫ
humiditas.a.equeuelociter remittet ſicut ſiccitas.b.intẽ-
det.igit equeuelociter remittet.a.ſicut.b.intẽdet.ꝯñia ⁊
minor patent.⁊ maior arguit:qꝛ intẽſio.a.ꝯtinue erit ſub
gradu medio iter caliditatẽ ſumã ⁊ humiditatẽ:⁊ caldi-
tas ꝯtinue ſtabit.igit in duplo tardius ꝯtinue remittet.a.
ꝗ̃ ſua humiditas.ꝯñia pꝫ per pˀus argutũ de.c.d.e. Et cõ
ſiliˀr arguit ꝙ.b.in duplo tardius ꝯtinue intẽdet ꝗ̃ ſua ſic-
citas:qꝛ caliditas ſua ꝯtinue ſtabit ⁊ eius itenᵒ ꝯtinue cor-
reſpõdebit gradui medio iter caliditatẽ ⁊ ſiccitatẽ.Et ꝙ
equecito deueniet.a.ad nõ gradũ ſicut.b.ad ſumũ pꝫ:qꝛ
equecito remittet humiditas.a.ad nõ gradũ ſicut intẽdet
ſiccitas.b.ad ſumũ:vt pꝫ:qꝛ cũ ſiccitate ſuma nõ ſtat hu-
miditas:⁊ cum humiditas.a.fuerit remiſſa ad nõ gradũ
erit.a.remiſſa ad nõ gradũ:⁊ cum ſiccitas.b.fuerit ſuma
erit.b.ſumũ.igit equecito deueniet.a.ad nõ gradũ ſicut
b.ad ſumũ:qõ fuit ꝓbãdũ.igit ſequit ꝯcluſio. Ideo forte
dˀ ꝙ nõ eſt incõueniẽs:qꝛ.a.deꝑdet magnam latitudinẽ
ſubito:⁊.b.nullã acqret ſubito. ¶ Cõtra.ex quo nõ remit-
tet.a.niſi per remiſſionẽ ſue humiditatis:nec.b.intẽdet
niſi per itẽſionẽ ſue ſiccitatis que erit eq̃lis remiſſioni hu-
miditatis.a.igit ſi.b.nullã itẽſionẽ rõne intẽſionis ſiccita-
tis ſubito acqret:nec.a.rõne remiſſionis humiditatis ali-
quã latitudinẽ ſubito deꝑdet. Itẽ ſic dato iſto ſequit cõ-
cluſio pma:qꝛ pˀus corrũpet humiditatẽ in ꝓpinquo agẽ-
ti ꝗ̃ in remoto.igit ſi fiat partibiliter quo ad ſubm corru-
ptio humiditatis ad nõ gradũ ſubito ad aliquẽ pũctũ cõ-
tinue deꝑdet tãta intenᵒ ſicut eſt a gradu medio vſqꝫ ad nõ
gradũ.que ꝯcluſio repugnat rõni:eo ꝙ ex iſto ſequit mo-
tũ nõ ſequi ꝑportionẽ ⁊c. ¶ Cõtra quartã ꝯcluſionẽ ar- ꝯtra 4ᵐ
guit ſignato aliquo mixto vnũ elemẽtũ põt partibiliter
deꝑdi ad non gradũ ſicut põt aliud partibiliter intẽdi ad
ſumũ.ergo põt eſſe aliqualiˀr diſtãs a nõ gradu ⁊ in duplo
minus ⁊ in quadruplo minus:⁊ ſic deinceps.ergo ꝯcluſio
nõ eſt vera. Siliter capiat vnũ huiꝰ mixtũ:⁊ ſit grã exẽ-
pli equaliˀr ex igne ⁊ aere:cuius ignis intẽdat ad ſummũ ⁊
aer remittat ad nõ gradũ per remiſſionẽ humiditatis:tũc
equeuelociter remittet aer ſicut intẽdet ignis:qꝛ aer in
duplo tardius remittet ꝗ̃ ſua humiditas:⁊ ſiccitas in du-
plo velocius intẽdet ꝗ̃ iſte ignis:⁊ humiditas equeuelo-
citer remittet ſicut ſiccitas intẽdet.igit equeuelociter re-
mittet aer ꝯtinue ſicut intẽdet ignis.añs pꝫ per argumẽ-
tũ factũ ad ꝯcluſionẽ ꝓximã.Cum igit aer equecito de-
ueniet ad nõ gradũ ſicut ignis intẽdet ad ſumũ:qꝛ cum
igne ſumo nõ ſtat aer:qꝛ tũc cum ſiccitate ſuma ſtaret hu-
miditas.ꝯſequẽs falſum:igit per tãtũ diſtat aer a nõ gra-
du ſicut ignis a ſumo. Nõ.n.poſſibile eſt ꝙ vnũ equeuelo-
citer remittat ſicut aliud intẽdet ⁊ equecito deueniat vnũ
ad nõ gradũ ſicut aliud ad ſumũ:niſi per tantũ diſtaret
vnũ a nõ gradu ſicut aliud a ſummo.igit cõcluſio falſa.
¶ Qꝛ tamẽ iᵃ ꝯcluſio ſequat ex poſitione arguit.Si eniꝫ
ſit poſſibile ꝙ ſit mixtum ex duobus elemẽtis cõuenientĩ-
bus ⁊c.ſit illud.a.⁊ ſit grã argumẽti ex igne ⁊ aere. ¶ Cõ-
tra.caliditas vtriuſqꝫ elementi eſt ſumma et humiditas
aeris eſt aliquãta.⁊ ſiliter ſiccitas ignis.ḡ gradus medius
inter humiditatem ⁊ caliditatẽ aeris eſt ſupra medium:⁊
ſiliˀr gradus medius iter caliditatẽ ignis ⁊ ſuã ſiccitatẽ eſt
ſupra

ſupra gradū mediū. igit̄ iuxta illam pōnē tam ignis q̄ etiā aer eſt ſupra gradū mediū. ſed oē qd̄ eſt ſupra gradū mediū minꝰ diſtat a ſummo q̄ aliud ſupra mediū diſtat a nō gradu vt ꝯſtat. igit̄ ſeqt̄ ꝯ. ¶ Silr̄ argr̄ ex quibuſcūqꝫ elementis ꝯuenientibꝰ ſit illd̄ mixtū: qꝛ vtriuſqꝫ elti vna q̄litas eſt ſumma ꝛ aᵃ q̄litas aliquāta: igit̄ inter vtriuſqꝫ elti q̄litates gradus mediꝰ eſt ſupra gradū mediū totꝰ latitu-
3um dinis. igit̄ ſeqt̄ ꝯclo. ¶ Cōtra q̄rtā arʳ. Si. a. ꝯtinue intendet. b. igit̄ cū nūq̄ remittet. ḡ ꝯclo falſa. Et ꝙ iſta ſequat̄ probo. Capiat̄. b. vna terra cuius ſiccitas per plus diſtat a ſummo q̄ friditas a nō gradu: ꝛ ſit. a. vnū agēs qd̄ remittat friditatē ad nō gᵐ vnifor̄ gr̄a argumēti ꝛ intēdat eius ſiccitatē ad ſummū in eodē tpe in quo remittet̄ friditas ad nō gradū: tūc ex quo ſiccitas. b. per plus diſtat a ſūmo q̄ ſua friditas a nō gradu: ꝛ in eodē tpe remittet̄ friditas ad nō gradū ſicut intēdet̄ ſiccitas ad ſummū: ꝛ h̄ vnifor̄. ḡ velociꝰ intēdet̄ ſiccitas q̄ remittet̄ ſua friditas: ꝛ p ꝯn̄s gradus mediꝰ iter ſiccitatē. b. ꝛ ſuā friditatē ꝯtiᵉ erit intēſior: ꝛ p ꝯn̄s iuxta hāc pōnē. b. ꝯtinue intēdet̄ per. a. ꝛ remittet̄ ad nō gradū: qꝛ in fine. b. nō habebit friditatē: ꝛ nō pōt eſſe terra ſine friditate. ḡ ſeqt̄ ꝯclo;

3z um pōnē **Contra ſcd̄am** pōnē 3 argr̄ ſic: qꝛ ex iſta ſequūt̄ iſta incōuenientia. Primū ꝙ aliqd̄ eſt intēſiꝰ q̄ iꝑmittet eſt intēſū. ¶ Scd̄m: nō plus facit q̄litas intēſior q̄ remiſſior reᵃ eiuſdē ſubti: ꝛ ex remiſſione vniꝰ q̄litatis ſtāte alia totū nō remittit̄. ¶ Tertiū. a. eſt vnū vnifor̄ p totū cuiꝰ vtraqꝫ medietas manēs ꝯtinue vniformis eodē gradu remittet̄ ad nō gᵐ: ꝛ tn̄ totū ꝯtinue intēdet̄. ¶ Silr̄. a. ꝛ. b. ſūt duo eque intēſa ꝑaſe: ꝛ vtraqꝫ medietas. b. equeuer̄ remittet̄ cū medietate correſpōdēte in. a. manēte. a. ꝯtiᵉ vniformi: ꝛ tn̄ totū. a. ꝯtinue erit intenſius ipſo. b. ¶ Quintū. a. ꝛ. b. ſunt duo eque intēſa ꝛ vniformia ꝛ quelꝫ ps ꝓporᵗⁱᵒ. b. ꝯtinue eq̄uer̄ remittet̄ cū pte ꝓporᵗⁱ correſpōdente in. a. ꝛ ſilr̄ ad oīa pūcta vtriuſqꝫ erit remiſſior ꝛ tn̄ in ifiᵐ maiorabit̄ ꝓporᵒ intēſionis. a. ſupra intenᵉˢ. b. ¶ Sextū. quelꝫ ps ꝓporᵗⁱᵒ. a. eſt in duꝰ remiſſior q̄ pars ꝓporᵗⁱᵒ correſpōdēs in. b. ꝛ tn̄ totū. a. eſt itēſius toto. b. q̄cūqꝫ
2ᵃ ꝯ ꝓporᵗᵉ maiori daᵃ. ¶ Scd̄a ꝯclo ſeqt̄ māifeſte: qꝛ capiat̄ vnū eltū: cuius calītas ſit vt octo: ꝛ ſiccitas gr̄a argumēti ſit vt q̄tuor: tunc totū eſt intēſū vt q̄tuor iuxta pōnē: ꝛ ſi calītas iᵃ remittit̄ ad q̄tuor totū nō remittit̄ ſi ſiccitas ſtaret. igit̄ per remiſſionē calītatis nō remittit̄ iᵈ eltū: ꝛ per ꝯn̄s nō plus facit calītas ad intēſionē elemēti q̄ facit iſta
pᵃ ꝯ ſiccitas. ¶ Prima ꝯclo arʳ ſic. Capiat̄ vnū eltū: cuiꝰ caliditas ſit vt octo ꝛ ſiccitas ſilr̄: ꝛ remittat̄ ſiccitas ad q̄tuor ſtante calītate vt octo. Tūc arguit̄ ꝯclo pro fine tpis: quia tunc erit iſtud eltū ꝙ ſit. a. intēſum vt q̄tuor: vt ponit poſitio. Et ꝙ tunc erit intēſū ſupra q̄tuor arguit̄: nūc ratiōe ſiccitatis ꝛ calītatis eſt totū intēſū vt octo: ꝛ tantū cōfert calītas ſicͭ ſiccitas, igit̄ calītas cōfert q̄tuor ꝛ ſiccitas quatuor. ſed ſiccitas in fine in duplo minꝰ faciet q̄ nūc: qꝛ tūc erit in duplo remiſſior q̄ nūc eſt ſtante caliditate: igit̄ tūc cōfert vt duo: ꝛ caliditas plus tunc faciet q̄ duo: quia tūc erit iſta caliditas oīo eque intēſa ſicut nūc eſt. igit̄ tunc caliditas ꝛ ſiccitas plus faciēt q̄ quatuor: ꝛ per ꝯn̄s tūc erit iᵈ intēſū ſupra gradū vt quatuor. igit̄ ſeqt̄ ꝯclo. ¶ Pro iſto forte dr̄ ꝙ calītas tunc nō plus faciet q̄ duo: lꝫ nunc plus faciat: ꝛ tunc erit eque intenſa ſicut nūc eſt: qꝛ lꝫ tunc erit eque remiſſa ſicut nūc eſt: tn̄ erit ꝯiuncta cū ſiccitate remiſſiori q̄ nūc: ꝛ equalis caliditas cū ſiccitate remiſſiori minus faciet ad intēſionē ignis q̄ cū ſiccitate intenſiori: ꝛ cōſilr̄ eſt de ſiccitate reſpectu calītatis. ¶ Cōtra. data iſta rn̄ſione adhuc ſeqt̄ ꝯclo: qꝛ ſit nūc finis: ꝛ ſequit̄ ꝙ nūc eſt intenſum vt quatuor: ſicut ponit̄ in pōne. ꝛ ꝙ ſit intēſius q̄ quatuor ꝓꝫ: qꝛ remittat̄ caliditas vſqꝫ ad q̄tuor ſtante

ſiccitate vt q̄tuor: tūc in fine ꝛ ꝯtiᵉ aīl erit intēſū vt q̄tuor per pōnē. ſꝫ nūc eſt intēſiꝰ q̄ tūc erit. ḡ ꝛc. Minor arʳ ſic: nūc erit calītas remiſſior q̄ nūc: ꝛ ſiccitas ꝑaſe eq̄lis ſicut eſt nūc. igit̄ p rn̄ſionē datā tūc minꝰ faciet ſiccitas ad intēſionē. a. ignis q̄ nūc facit: ꝛ calītas tunc nō faciet plus ad totiꝰ intēſionē q̄ nūc facit. ḡ calītas ꝛ ſiccitas minꝰ faciet q̄ nūc faciāt. ꝯn̄a ꝓꝫ ꝛ minor ſilr̄: qꝛ calītas tunc erit remiſſior q̄ nūc eſt ꝯiuncta cū ſiccitate eq̄li ſicͭ nūc ꝯiūgit̄. igit̄ tūc nō plus faciet q̄ nūc facit. ꝛ maior ꝓꝫ ex eo ꝙ ſiccitas tūc erit ꝯiūcta cū calītate remiſſiori q̄ nūc. ſeqt̄ ergo ꝯclo ex pōne ſiue ponat̄ ꝙ eq̄lis calītas equalr̄ faciet cū ſiccitate minori ſicͭ cū maiori vel ꝙ minꝰ faciet: ꝛ ꝯclo icludit ꝯdictionē. ḡ iᵃ ꝯclo eſt fl̄ſa. ¶ Cōtra 2ᵃᵐ ꝯnē arʳ ſic. Capiat̄ 3z um ꝯnem.
iſta calītas. a. ſic vt octo: tūc iᵃ cōtinet bis q̄tuor: ꝛ ſic tunc vtraqꝫ medietas illiꝰ caliᵗᵃᵗⁱˢ tātū ꝯfert ſicͭ ſiccitas: qꝛ ſi medietas illiꝰ calītatis eēt ablata: tūc tātū faceret alia medietas calītatis ſicut tota ſiccitas. ſꝫ ꝑp aliā medietatē illiꝰ caliditatis nō īpedit̄: īmo plus ꝓmouet̄. igit̄ tantū nūc facit vna medietas illiꝰ calītatis ſicut tota ſiccitas: ꝛ tantū facit alia medietas eiuſdē calītatis ſicut iᵃ ſiccitas: vel ſaltē aliquāntulū fac̄. igit̄ plus fac̄ tota calītas tota ſiccitᵗᵉ. igit̄ ꝯclo nō eſt vᵃ. ¶ Contra 3ᵃᵐ ꝯnē arguit̄ ſic. Si vtraqꝫ medie- 3 3um
tas ꝯtinue remittet̄ manēs vniformis: igit̄ ad oēꝫ punctū vnius erit eq̄lis remiſſio ſicut ad aliquē punctū alteriꝰ: qꝛ ad oēm punctū vniꝰ medietatis erit eq̄lis remiſſio ſicͭ ad aliquē eiuſdē medietatis: eo ꝙ manebit vniformis: ꝛ ad oēꝫ punctū vniꝰ medietatis erit eq̄lis remiſſio ſicut ad aliquē alteriꝰ: eo ꝙ ad oīa pūcta vtriuſqꝫ medietatis ꝯtiᵉ erit eq̄lis remiſſio. ḡ ad oēm punctū totiꝰ erit eq̄lis remiſſio ſicͭ ad aliquē: ꝛ ſi ſic nullicubi erit intenſio. igit̄ nō ſtat aliquo mō totū intēdi. ḡ ꝯclo ē impoſſi̇̄s. Et ꝙ iſta ſequat̄ arguit̄ ſic. Sit. a. vnū vnifor̄: cuiꝰ tā calītas q̄ ſiccitas ſint vniformes vt q̄tuor: ꝛ remittat̄ calītas in vna medietate vnir̄ ad nō gradū ꝛ in alia eiꝰ medietate remittat̄ ſiccitas vnifor̄ ad nō gradū equeuer̄ ſicut calītas in pᵃ medietate: ꝛ intēdat̄ ſiccitas in ꝑma medietate cōtinue velociꝰ q̄ remittat̄ in ſecūda: ꝛ in ſecūda medietate intendat̄ caliditas ꝯtinue velocius q̄ remittat̄ in ꝑma: ꝛ maneat vtriuſqꝫ medietatis caliditas continue vniformis ꝛ etiā ſiccitas: ꝛ ſiccitas prime ptis ꝯtinue equeʳ intēdat̄ ſicut calītas 2ᵉ.



Tunc ꝙ. a. ſit vniforme ꝓꝫ. ꝛ ꝙ vtraqꝫ medietas remittet̄ vnifor̄ ad nō gᵐ ꝛ manebit vniforᵐⁱˢ. ꝓbat̄: qꝛ pᵉ medieᵗᵃᵗⁱˢ calītas remittet̄ vnir̄ ad nō gᵐ ꝛ manebit vniformis: eo ꝙ ſua calītas ꝯtiᵉ erit vniforᵐⁱˢ: ꝛ q̄lꝫ ps illius medicᵗᵃᵗⁱˢ erit eq̄ itēſa cū ſua calītate p pōnē. igit̄ iᵃ medietas manēs ꝯtinue vniformis vnifor̄ remittet̄ ad nō gᵐ: ꝛ ꝯſilr̄ argʳ de alia medietate. Et ꝙ ille medietates ꝯtiᵉ erūt eq̄ intēſe eodem gradu ꝓꝫ: qꝛ nūc ſūt vniformes eodē gradu: ꝛ ꝯtiᵉ equeueʳ remittent̄: quia vna equeueʳ remittet̄ cum ſua ſiccitate ꝛ alia equeueʳ cum ſua caliditate: que caliditas ꝛ ſiccitas cō-

tinue equeueˀ remittenť vt poniť in caſu. igiť pꝫ cõcluſio preter vltimã pticulaꝫ que ſic arguit: qꝛ due ſūt poſitiões in de diffo:mibꝰ.ſ.ꝙ vel qualitas corrñdet gradui medio. vel eſt eque intenſa ſicut aliqua pars eiuſdẽ.ſi gradui medio:tunc ex quo velocius intendeˀ caliditas in vna medietate ꝙ̃ remitteť in alia:ſequiť ꝙ gradus medius inter caliditatẽ vnius medietatis ꝛ caliditatẽ alterꝰ medietatis cõtinue erit intenſioꝛ ꝛ intẽſioꝛ: ꝛ ſi ſic caliditas cõtinue intendeť. Conſimilr arguiť de ſiccitate ꝙ iſ̃ ꝯtinue intẽdať: tunc ſi caliditas cõtinue intendiť ꝛ etiaꝫ ſiccitas:ſequiť ꝙ illud elementũ intendeť.ergo ponẽdo qualitatẽ diffoꝛmẽ cuius vtraqꝫ medietas eſt vniformis correſpondere gradui medio:ſequiť totũ cõtinue intendi.ſi etiaꝫ ponať qualitatem eſſe intenſam ſicut aliqua pars eiuſdẽ ſequiť caliditatẽ.a.ꝯtinue intẽdi:qꝛ ꝯtinue ps intẽſiſſima caliditatis.a. intẽdeť.ꝛ ꝯſilr eſt de ſiccitate.igiť pꝫ ꝙ totũ.a. ꝯtinue intẽ-

34ᵘᵐ deť.ǵ ſeqť ꝯclo.¶ Cõtra 4ᵘᵐ ſic argˀ. Si.a.ꝛ.b.ſunt duo vniformia eq̃ intẽſa ꝛ equeueˀ remittanť eoꝝ medietates manẽtes eodeꝫ gradu vniformes.igiť ad oẽꝫ punctũ vniꝰ equeueˀ erit remiſſio ſicut ad punctũ corrñdentẽ alterꝰ. igiť ſi nũc ſunt eque intẽſa:ſeqť ꝯtiˀ manebũt eque intẽſa: ꝛ per ꝯñs neutrũ erit alio intẽſiꝰ.ǵ ꝯclo nõ erit va.¶ Et tñ iſ̃ ꝯclo ſequať ex põne arguitur ſic. Ponatur ꝙ.a.ꝛ.b.ſint duo vniformia:ita ꝙ caliditas vtriuſqꝫ ſit vt q̃tuoꝛ:ꝛ ẽt ſiccitas:vt poniť in caſu ꝓxio de.a.ꝛc.ꝛ ponať ꝙ in pꝛia medietate.b. remittať caliditas ſicut in pᵃ medietate.a. ꝛ in zᵃ medietate.b. remittať ſiccitas ſicut in ſcda medietate.a. tamen intendať ſiccitas in prima medietate.b.tardius ꝙ̃ ſua caliditas remittitur:ꝛ intenditur caliditas in alia medietate tardius ꝙ̃ ſua ſiccitas remittitur.

	veloci ͗ intẽdiť
cal.4.remi.	cali.4.
ſic.4.	ſic.4.remi.
veloci ͗ intẽdiť	

	tardiꝰ intẽdiť
cal.4.remi.	cali.4.
ſic.4.	ſic.4.remi.
tardiꝰ intẽdiť	

Tunc in vna medietate.b.velocius remittiť caliditas ꝙ̃ in alia medietate intẽdeť.ǵ ſi gradus mediꝰ inter caliditatem vniꝰ medietatis ꝛ caliditatẽ alterꝰ medietatꝭ ꝯtinue erit remiſſioꝛ ꝛ remiſſioꝛ.ǵ tota caliditas.b.corrñdebit gradui remiſſioꝛi ꝛ remiſſioꝛi.ꝛ ſic arˀ de ſiccitate.ǵ tam ſiccitas.b. ignis ꝙ̃ ſua caliditas ꝯtiˀ corrñdebit gradui remiſſioꝛi ꝛ remiſſioꝛi:ꝛ ſic.b.ꝯtiˀ erit remiſſius ꝛ remiſſiꝰ:ꝛ.a.ꝯtinue erit intẽſius ꝛ intẽſius.ǵ cũ.a.b.nũc ſūt eque intẽſa ſeqť ꝙ cõtinue.a.erit intẽſius.b. Si tñ ponať ꝙ q̃litas ſit eq̃ intẽſa ſicut aliq̃ ps eiuſdẽ:ꝛ nũc ideꝫ ſeqť eo ꝙ caliditas.a.ꝯtiˀ erit intẽſioꝛ caliditate.b.qꝛ maxia caliditas.a.ꝯtinue velociꝰ intẽdeť maxia caliditate.b. vt pꝫ per caſuꝫ:ꝛ ꝯſilr eſt de ſiccitate.igiť tã caliditas.a.ꝙ̃ ſua ſiccitas ꝯtinue erit maioꝛ caliditate ꝛ ſiccitate.b. ꝛ per ꝯñs caliditas ꝛ ſiccitas.a. ꝯtiˀ erit maioꝛ caliditate ꝛ ſiccitate.b. ꝛ per ꝯñs.a.erit ꝯtinue intenſius.b.qđ fuit ꝓbãduꝫ.¶ Cõtra qntã ꝯnẽꝫ arguiť ipſam 35ᵘᵐ improbãdo.Si.n.queliꝫ pars ꝓpoꝛtiõalis.a. pciˢ equeueˀ. remitteť cũ pte ꝓpoꝛtionali corrñdente.b.igiť ad oĩa puncta corrñdentia ꝯtinue erit eq̃lis remiſſio: ꝛ p ꝯñs neutrũ alio velociꝰ remitteť. ꝯña arguiť.qꝛ vel.a.p totũ vno gradu remitteť vel latitudine.Si gradu vno.ǵ ſi queliꝫ ps.b. equeueˀ remittať cũ pte ꝓpoꝛtionali corrñdente.a.ſequiť ꝙ.b.remitteť eodeꝫ gradu vniformiter per totuꝫ.ꝛ p ꝯñs neutrũ alio velocius remitteť. Si aũt.a.remittať mediante latitudine alterationis:ꝛ ad oẽm punctũ.b.eſt equalis remiſſio ſicut ad punctũ corrñdentẽ.a.ergo ꝯſilr extẽdetur illa latitudo alterationis in.b.ſicut in.a.ꝛ per ꝯñs eidẽ gradui corrñdebit alteratio in.b.ſicut in.a. ſeqť ǵ ꝙ equeueˀ pciſe remittať vnũ ſicut reliquũ: ꝛ per ꝯñs nõ maioꝛabiť ꝓpoꝛtio intẽſionis.a.ſupꝛa intẽſioneꝫ.b.nec minoꝛabitur. ergo ꝯclo eſt impoſſis. Et ꝙ iſta ſequať ex põne arguitur ſic. Poſito ꝙ.a.ꝛ.b.ſunt duo vniformia:ita ꝙ gratia argumenti ſit caliditas vtriuſqꝫ vt q̃tuoꝛ: ꝛ ẽt ſiccitas:ꝛ diuidať vtrũqꝫ in ptes ꝓpoꝛtionales.Et pono ꝙ in pᵐa pte ꝓpoꝛtionali.b.remittať ſiccitas ad vnitatẽ vel ad duo:ꝛ in ſcda parte ꝓpoꝛtionali.b.remittať ſiccitas ad gradũ in duplo remiſſioꝛẽ ꝙ̃ remitteť ſiccitas prime ptis ꝓpoꝛtionalis:ꝛ in 3ᵃ pte ꝓpoꝛtionali.b.remittať ſiccitas ad graduꝫ in duplo remiſſioꝛẽ ꝙ̃ remitteť ſiccitas ſcde ptis ꝓpoꝛtionalis: ꝛ ſic in infinitũ:ꝛ ſtet in oĩ parte.b.caliditas vel remittať: vel ſi intendať:intẽdatur tardius ꝙ̃ ſiccitas remitteť: vel equeueˀ:ꝛ duret ad oẽm punctũ eiꝰ remiſſio per horaꝫ.Et pono ꝙ in omni pte ꝓpoꝛtionali.a. pari remittať caliditas equeueˀ ſicut remittiť ſiccitas in pte ꝓpoꝛtionali corrñdente.b.ꝛ in oĩ pte ipari.a.equeueˀ remittať ſiccitas ſicut in parte ꝓpoꝛtionali correſpõdente.b.remittetur ſiccitas ita.ſ.ꝙ in omni parte ꝓpoꝛtionali.a.pari in fine erit equalis caliditas ſicut erit ſiccitas in parte ꝓpoꝛtionali.b. correſpondente:ꝛ in omni parte impari.a.ſit equalis ſiccitas ſicut erit in parte corrñdente.b. Et ponať ꝙ ꝓpoꝛtionalr ſicut in aliqua parte ꝓpoꝛtionali.a. ſiat caliditas remiſſioꝛ: ita ſiat ſiccitas maioꝛ:ꝛ ſicut in aliqua pte ꝓpoꝛtiõali ſiat ſiccitas remiſſioꝛ:ita ꝓpoꝛtionalr ſiat caliditas intenſioꝛ.

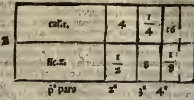
B	cal.4.	4	4	4	
	ſic.remiˢ ad.2.	1.	$\frac{1}{2}$	$\frac{1}{4}$	
	1.pars	2ᵃ	3ᵃ	4ᵃ	

A	cal.4.	1.	16	$\frac{1}{4}$	
	ſic.remiˢ.ad.2.	8	$\frac{1}{2}$	16	

Quo poſito ſequiť cõcluſio.Et eniꝫ.a.ꝛ.b.ſūt duo vniformia eque intenſa vt poniť in caſu:ꝛ ꝙ queliꝫ pars ꝓpoꝛtionalis.a.equeueˀ preciſe remittať ſicut pars ꝓpoꝛtionalis.b.corrñdẽs:pꝫ:qꝛ qualitas remiſſioꝛ cuiuſliꝫ partis ꝓ-

ꝓportionalis.a.erit cõtinue eque intenſa ſicut q̃litas remiſ‑ſior partis ꝓportionalis corriſidentis in.b. ⁊ quelꝫ pars.a. ⁊ etiã.b.erit eque intenſa cuꝫ qualitate remiſſiori eiſdem iuxta põnẽ.ꝫ ſequit̃ ꝙ quelꝫ pars ꝓportionalis.a.erit cõtinue ꝑciſe eque intenſa cũ pte ꝓportionali corriſidente.b. ⁊ per ꝯñs equeu' remittet̃ quelꝫ pars ꝓportiõalis.b.ſicut pars corriſidens.a. ⁊ ſilr ad oĩa puncta vtriuſqꝫ erit remiſſio. Ponit̃ n. ꝙ per totã horaꝫ ad oĩa puncta vtriuſqꝫ fiat remiſſio. Et ꝙ in infinitũ maiorabit̃ ꝓportio intẽſionis.a. ſupra intenſionẽ.b.pꝫ:q2 erit.a.infinite intenſuꝫ: ⁊.b.ſoluꝫ finite intenſum:q2 caliditas.b.erit ſolum finita: ⁊ etiaꝫ ſua ſiccitas ⁊ caliditas.a.erit infinita. ⁊ etiã ſua ſiccitas:q2 caliditas in prima pte ꝓportionali.a. erit aliqualr intẽſa ⁊ in 3ª in quadruplo intẽſior: ⁊ ſic in infinitum de oĩbus partib⁹ imparibus. Naꝫ ſiccitas in pma pte ꝓportionali.b. erit in quadruplo intenſior q̃ ſiccitas in 3ª pte ꝓportionali eiuſdem b.vt ponit caſus: ⁊ in omni parte ꝓportionali.a. ipari erit ſiccitas eq̃lis ſicut erit ſiccitas in ꝓportionali pte.b.corriſidente.igitur in quadruplo remiſſior, in fine erit ſiccitas 3ᵉ ptis ꝓportionalis.a.q̃ pme: ⁊ ſicut ſiccitas erit remiſſior: ita caliditas erit maior.igit̃ in quadruplo intẽſior erit caliditas 3ᵉ ptis ꝓportionalis.a.q̃ pme: ⁊ ſic de alijs ptib⁹.parib⁹ eſt arguẽduꝫ ſicut de ptib⁹ iparib⁹ arguebat̃. Et ꝯſilr ar̃ õ ſiccitate:q2 in ſcda ꝓportionali.a. erit aliqua ſiccitas: ⁊ in q̃druplo intẽſior erit in 4ª pte ⁊ ſic õ alijs ptib⁹ eſt arguẽdum vt prius de alijs ptib⁹ imparib⁹ eſt argutum. ergo tota ſiccitas.a.ĩfinito gradui corriſidebit: ⁊ ẽt ſua caliditas.igit̃ infinite intẽſuꝫ erit.a.in fine. ⁊.b.ſoluꝫ finite intẽſuꝫ:ſed q2 ſiccitas ſua ⁊ ẽt eiuſdẽ caliditas erit ſolũ finite intenſa ꝑ ꝯñs in infinitum maiorabit̃ ꝓportio intenſionis.a.ad intenſionem.b.ꝫ ꝯclõ ſeqt̃.

36ᵐ ¶ Cõtra ſeptiã ꝯcluſionẽ ar̃ ſic.vel eſt.a.vniforme vel difforme. Si vniforme ⁊ quelꝫ ps ꝓportionalis.b.eſt in du⁹ intẽſior q̃ pars ꝓportionalis.a.corriſidens.igit̃.b.eſt vniforme gdu du⁹ ad gradũ quo eſt.a. vniforme: ⁊ ꝑ ꝯñs.a.nõ eſt intẽſi⁹.b. Si ẽt.a.ſit difforme: ⁊ q̃lꝫ ps ꝓportionalis.b.eſt in du⁹ intẽſior q̃ pars ꝓportionalis.a. corriſidens.igit̃ intenſio.b.difformis corriſidet gradui itẽſiori q̃ intẽſio.a. ⁊ ꝑ ꝯñs.a.nõ eſt intẽſius.b. ꝫ ꝯclõ icludit ꝯdictionẽ. Et ꝙ 1ª ſequat̃ ar̃ ſic. Ponat̃ de.b.vt ponit̃ in caſu ꝑcedẽte:ita ꝙ.b.ſit ita diſpoſitũ ſicut erit in fine remiſſionis in caſu pmo dato ⁊ ſit caliditas pme ptis ꝓportionalis.a.in du⁹ remiſſior q̃ ſiccitas pme ptis ꝓportionalis.b. ⁊ in 3ª pte ꝓportionali.a.ſit in du⁹ remiſſior caliditas q̃ eſt ſiccitas in 3ª pte ꝓportionali.b. ⁊ ſic de alijs ptibus iparib⁹: ⁊ ſit ſiccitas ſcde ptis.a.in du⁹ remiſſior q̃ ſiccitas ſcde ptis ꝓportionalis.b. ⁊ ſic de oĩb⁹ ptib⁹ parib⁹:ita ꝙ in oĩ pte ꝓportionali.a.ipari ſit caliditas in du⁹ remiſſior q̃ eſt ſiccitas in pte corriſidente.b. ⁊ in oĩ parte ꝓportionali.a.pari ſit ſiccitas in du⁹ remiſſior q̃ eſt ſiccitas in parte correſpõdente.b. ⁊ ſic ſiccitas in 3ª parte ꝓportionali.a.in quadruplo intẽſior q̃ in prima: ⁊ ſic de alijs ptibus imparib⁹. ⁊ ſic caliditas quarte ptis ꝓportionalis.a. in q̃druplo intenſior q̃ caliditas 2ᵉ: ⁊ ſic alijs ptib⁹ parib⁹.



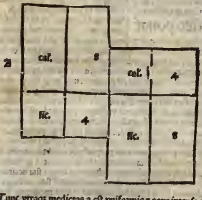
Tunc cuiuſlibꝫ partis ꝓportionalis.a. eſt qualitas remiſſior in duplo remiſſior q̃ qualitas remiſſior in parte correſpondente.b.vt ponit caſus, ⁊ iuxta poſitionẽ omnẽ elementuꝫ eſt eque intenſuꝫ cũ ſua remiſſiori qualitate. igit̃ pꝫ pma particula ꝯñs ⁊ vltima ſimilr ꝙ.a.eſt infinite intẽſum. ⁊.b.ſoluꝫ finite intenſuꝫ. Caliditas enĩꝫ.a.eſt infinita vt argutũ eſt prius: ⁊ etiaꝫ ſua ſiccitas. igit̃ ſequit̃ ꝙ.a.eſt infinite intenſum: ⁊.b.ſolum finite intenſum. ergo infinita eſt ꝓportio intenſionis.a.ad intenſionem.b.qḋ fuit ꝓbandum.

¶ Similr data iſta poſitione ſequit̃ ꝙ aliqḋ eſt difforme:cuius vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cum aª. 7ª ꝯ

¶ Similr aliquod eſt tale cuius vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cum aª: ⁊ tamẽ totum eſt intenſius q̃ aliqua eius medietas. 8ª ꝯ

¶ Contra primã ſic arguit̃. Si vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cũ aª:ſequit̃ ꝙ ad omnẽꝫ punctũ eſt equalis intẽſio.ergo nullicubi eſt difformitas: ⁊ per cõſequẽs ſubiectuꝫ nõ eſt difforme. 37ᵐ

¶ Similr arguit̃ contra proximã. Si eniꝫ vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cum alia vndiqꝫ eſt equalis intenſio.ergo nulla pars eſt alia intenſior nec totum aliqua parte intenſius. Tamẽ ꝙ iſta cõcluſio ſequat̃ arguit̃ ſic. Ponatur ꝙ in vna medietate.a. ſit caliditas vt octo: ⁊ in alia medietate ſit caliditas vt quatuor: ⁊ in medietate vbi eſt caliditas vt octo ſit ſiccitas vt quatuor: ⁊ in alia medietate vbi eſt caliditas vt q̃tuor ſit ſiccitas vt octo. 38ᵐ



Tunc vtraqꝫ medietas.a.eſt vniformis ⁊ eque intenſa cũ alia:quia prime medietatis.a. caliditas eſt vniformis vt octo: ⁊ ſiccitas vt quatuor. ergo iuxta illam poſitionem iª medietas eſt vniformis vt quatuor. Similiter alteri⁹ medietatis.a.eſt caliditas vt quatuor vniformis ⁊ ſiccitas vt octo.igit̃ per poſitionẽ illam iª medietas eſt vniformis vt quatuor: ⁊ ſic ſequit̃ ꝙ vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cum alia. Et ꝙ totum ſit difforme arguit̃ ſic. Una pars eius eſt alia parte intenſior. igit̃ totum eſt difforme.conſequẽtia pꝫ ⁊ antecedens ꝓbo ſic. Capio duas quartas medias ⁊ partem compoſitam ex biſtia ꝙ punctus medius totius ſit punctus medius illius partis:tunc iª pars correſpondet gradui intenſiori q̃ eſt gradus vt quatuor.nam ſiccitas eſt intenſior q̃ quatuor. ⁊ etiam caliditas: quia ſiccitas in vna medietate illius partis eſt vt viij. ⁊ in alia medietate vt quatuor: vt patet per caſum. ergo tota caliditas iſta correſpondet gradui intenſiori q̃ eſt gradus vt quatuor: quia ſm vnam poſitionẽ qualitas hmõi difformis correſpondet gradui medio: ⁊ ſm aliam gradui intẽſiſſimo.

¶ Conſilr ar̃ de ſiccitate.ꝫ vtraqꝫ q̃litas illi⁹ ptis corriſidet gradui intẽſiori q̃ eſt gradus vt.iiij. e ſi ſic iſta ps corriſidet gradui intẽſiori q̃ eſt.iiij. ⁊ aª pars corriſidet gradui vt.iiij.vt argutũ eſt, igit̃ ſequit̃ cõcluſio.

¶ Octaua ꝯclō arg' ꝯſilr: qꝛ vtraqꝫ medietas eſt vniformis ꝛ eq̄ inteſa cū alia vt argutū eſt: ꝛ totū eſt inteſi⁹ q̄ aliqua medietas eiuſdeꝫ: qꝛ tota caliditas correſpondet gradui inteſior q̄ eſt .iiij. vt pat⁹ argutū eſt de iſta pte cōpoſita ex duab⁹ q̄rtis intermedijs: ꝛ ſic eſt de ſiccitate. g̃ ſequit̃ ꝯclō.

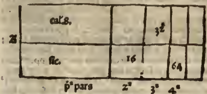
8a ꝯ ¶ Itē data 1a pōne ſeqt̃ ꝙ .a. eſt tale cui⁹ pa ps pporlis eſt aliq̄lr intenſa: ꝛ 2a in du⁹ remiſſior: ꝛ 3a in q̄druplo remiſſior: ꝛ ſic in ifitum: ꝛ tn̄ totū .a. eſt ifinite inteſum. Cꝫ iſta ꝯclō ſit ipoſſibilis arguit̃ ſic: qꝛ ſi .a. p totū eēt eq̄ inteſuꝫ ſic eſt pma ps pporlis: tūc .a. foret ſoluꝫ finite inteſuꝫ: qꝛ eque inteſuꝫ cū pa pte pporli. ſed nūc quelꝫ ps pporlis illi⁹ eſt remiſſior q̄ tūc eēt. g̃ .a. nūc nō eſt ifinite inteſuꝫ. Et ꝙ ꝯclō ſequat̃ ex pōne 1a ar' ſic. ꝛ pōat̃ ꝙ .a. ſit diſpoſitū ſic po' ꝙ .a. erit in fine caſu poſito ad ꝯnem gntā pbatā: tūc vt ibi arguit̃ nunc eſt pe ptis pporlis ſiccitas aliquāta: ꝛ 2e ptis pporlis caliditas in duplo remiſſior q̄ ſiccitas pe ptis pporlis: ꝛ ſiccitas 3e ptis pporlis in du⁹ remiſſior q̄ caliditas 2e ptis proportionalis ꝛ ſic deinceps: ꝛ cuiuſlibꝫ ptis iparis erit ſiccitas qualitas eius remiſſior: ꝛ cuiuſlꝫ ptis iparis caliditas erit q̄litas eius remiſſior. g̃ oīs ps ipar eſt eque inteſa cuꝫ ſua ſiccitate: ꝛ oīs ps par eſt eque inteſa cuꝫ ſua caliditate: ꝛ per ꝯns pma ps pporlis eſt aliq̄lr inteſa: ꝛ 2a in duplo remiſſior: ꝛ ſic in ifim. Et ꝙ totū ſit ifitr inteſuꝫ ar' ſic ibi arguebat̃: eo ꝙ caliditas tota eſt ifinita ꝛ eēt ſiccitas. igit̃ ſeqt̃ ꝯ.

3am pōneꝫ nō vedu/ cū ſcdam ꝯcl' nemi/ ga forteſ vnm acci/ pit qō ab hac pōne negaretur l. ꝙ ſi plus faciat q̄li/ tas inten/ ſior q̄ re/ miſſō ꝛc. **Ideo ponat̃** 3a pō ꝯ quā ſic arguit̃ ex iſta ſequit̃ ꝯnes reducte ꝯ precedentē pōnem. Prima .n. vī ſequi: qꝛ ponat̃ caſus poſit⁹ pro pma ꝯne in pōne pxia: ꝛ arguit̃ ꝙ tūc correſpondebit gradui vt .vi. vt ibi arguit̃: ꝛ ꝙ tunc correſpondebit gradui remiſſiori q̄ .vi. vt ponit iſta poſitio: qꝛ correſpondebit gradui medio pportionali inter octo ꝛ q̄tuor qui eſt gradus remiſſior q̄ ſex: vt ꝯſtat.

3a ꝯ ¶ Contra oēs ꝯnes arguit̃ vt prius: ꝛ ēt arguit̃ ꝙ 3a ꝯcluſio ſequit̃ ex illa pōne. Sit eniꝫ .a. vniforme cui⁹ tam caliditas q̄ ſiccitas ſit vniformis vt q̄tuor ꝛ remittat̃ caliditas vni⁹ medietatis ad nō gradū: ꝛ ſiccitas eiuſdeꝫ medietatis intendat̃ veloci⁹ q̄ caliditas remittit̃: ſic tn̄ ꝙ gradus medi⁹ pportionalis inter caliditatē ꝛ ſiccitatē ꝯtinue remittat̃ qđ eſt ſatis poſſe: qꝛ velocius propor' pōt caliditas remitti q̄ ſiccitas intēdi: dūtamē tardius ſimplr remittit̃ q̄ ſiccitas intēdatur: eo ꝙ cōtinue caliditas erit minor ſua ſiccitate. Ponat̃ tn̄ ꝙ in alia medietate .a. remittat̃ ſiccitas ſicut caliditas in pma: ꝛ intēdat̃ caliditas in ſcda medietate ſicut ſiccitas in pma. Tunc ꝙ vtraqꝫ medietas remittet̃ ad nō gradum pꝫ: qꝛ in vtraqꝫ medietate gradus medius pportionalis inter caliditatē ꝛ ſiccitatē remittet̃ ad nō graduꝫ vt ponit caſus ꝛ tota medietas cōtinue erit eque inteſa cū medio gradu pportionali inter illas q̄litates. igit̃ vtraqꝫ medietas .a. cōtinue remittit̃ ꝛ hoc eodē gradu. Et ꝙ totū .a. cōtinue intēdet̃ pꝫ: qꝛ velocius ꝯtinue intēdet̃ caliditas in vna medietate q̄ remittet̃ in alia: qꝛ equeuel' remittet̃ caliditas in pma medietate ſicut ſiccitas in ſcda: ſꝫ veloci⁹ intēdet̃ caliditas in ſcda medietate q̄ ſiccitas ei⁹ in eadeꝫ remittet̃. g̃ veloci⁹ intēdet̃ caliditas in vna medietate q̄ in alia medietate remittet̃. ergo tota caliditas ꝯtinue correſpondebit gradui inteſiori ꝛ inteſiori: ꝛ ꝯſilr arguit̃ de ſiccitate. g̃ vtraqꝫ qualitas ꝯtinue intēdet̃: ꝛ per ꝯns gradus medius pportionalis inter illas q̄litates eiuſdē ſpēi cōtinue

4a ꝯ intēdet̃: ꝛ ſi ſic totū .a. intendet̃. ¶ Pro 4a ꝯne arguit̃ ſic. Ponat̃ de .a. vt nūc poſitū eſt: ꝛ ponat̃ ꝙ .b. ſit oīo ꝯſile .a. ꝛ ꝙ in pma medietate eius velocius remittat̃ caliditas q̄ in prima medietate .a. ꝛ in ſcda medietate cōſilr remittatur ſiccitas ſicut in pa caliditas: ꝛ ſtet in pa medietate .b. ſiccitas: ꝛ in ſcda caliditas: ita ꝙ gradus medi⁹ pporlis iter caliditatē ꝛ ſiccitatē medietatū .b. ſit eq̄lis gradui medio pporli inter caliditate ꝛ ſiccitatē medietatū .a. vt eſt ſatis poſſe. Tūc ꝙ vtraqꝫ medietas .a. ꝯtinue erit eque inteſa cū medietate correſpōdente .b. pꝫ per poſitionem. Et ꝙ .a. ꝯtinue erit intenſius .b. pꝫ: qꝛ caliditas .a. cōtinue erit inteſior q̄ nunc eſt vt pbatuꝫ eſt: ꝛ caliditas .b. nō erit intenſior q̄ nūc eſt: eo ꝙ in vna medietate remittet̃ caliditas ꝛ ſtabit in alia: ꝛ cōſimilr eſt de ſiccitate .a. eo ꝙ ipſa intendet̃ ꝛ nō ſiccitas .b. Cum igit̃ caliditas .a. nūc ſit equalis caliditati .b. ſequit̃ ꝙ caliditas .a. ꝯtinue erit inteſior q̄ caliditas .b. ꝛ ſic etiā arguit̃ de ſiccitate. ergo pꝫ ꝙ totū .a. cōtinue erit inteſius q̄ totū .b. g̃ ſequit̃ ꝯcluſio. ¶ Cꝫ qntā cōcluſio ſequat̃ 5a ꝯ

arguit̃ ſic. Et ponat̃ de .b. vt ponit̃ in pbatione eiuſdeꝫ cōcluſionis in pōne pxima: ꝛ ſit .a. ꝯſilr diſpoſitū oīno cū .b. diuiſum in ptes pportionales: ꝛ intēdat̃ caliditas in pma parte pportionali .a. ita ꝙ in fine erit in du⁹ intenſior q̄ nunc eſt: ꝛ intēdatur ſiccitas in ſecūda parte pportionali: ita ꝙ in fine erit in duplo intenſior q̄ caliditas prime: ꝛ intendatur caliditas tertie partis ſic ꝙ in fine erit in duplo intenſior q̄ ſiccitas ſcde: ꝛ in iſta 4a pte pportionali intendat̃ ſiccitas ad gradum duplū ad graduꝫ ad quem intendit̃ caliditas 3e: ꝛ ſic in infinituꝫ: ita ꝙ in omni parte impari intendat̃ caliditas: ꝛ ſicut aliqua iſtaꝝ partiuꝫ eſt minor pma: ita ad gradum intenſiorē intendat̃ caliditas in illa parte q̄ in pma: ꝛ in omni pari intendat̃ ſiccitas ad gradum dupluꝫ ad illum gradum ad quē intendit̃ caliditas in parte imediate precedēte: ꝛ ponat̃ ꝙ in omni parte pportionali in qua intendet̃ caliditas remittat̃ ſiccitas: ꝛ in omni parte pportionali in qua intendet̃ ſiccitas remittatur caliditas: ita ꝙ gradus medius pportionalis in oī parte pportionali .a. cōtinue ſit eque intenſus cum gradu medio inter caliditatē ꝛ ſiccitateꝫ in parte correſpōdente .b. ſicut ſatis ꝯſtat eē poſſe: eo ꝙ q̄ntūcūqꝫ intēdat̃ vna q̄litas elemēti ita pōt alia remitti: ꝛ quātūcūqꝫ remiſſior volueris ſit gradus medius pportionalis iter illas q̄litates.



Tunc ꝙ .a. ꝛ .b. ſunt duo eque intenſa pꝫ per caſuꝫ: ꝛ quelꝫ pars pportionalis .a. equeuel' remittet̃ cū parte pportionali correſpōdente .b. qꝛ quelibꝫ ps pportionalis .a. equeuelociter remittet̃ cuꝫ gradu medio pportionali inter caliditateꝫ ꝛ ſiccitatē iuxta poſitionē: ſed gradus medius pportionalis inter caliditatē ꝛ ſiccitatē equeuel' remittetur in omni pte pportionali .a. ſicut remittet̃ gradus medius pportionalis in parte pportiōali .b. correſpōdente vt ponit̃ in caſu. ergo quelibꝫ pars pportionalis .a. equeuelociter remittet̃ cum parte pportionali correſpōdente .b. Et ꝙ in infinitū maiorabit̃ pportio inteſionis .a. ſupra intenſionem .b. arguit̃: qꝛ in fine erit .a. infinite intenſum: ꝛ .b. ſolum finite intenſuꝫ: qđ ſic arguit̃. In fine erit caliditas pme partis pportionalis .a. aliquāta ꝛ in 3a in quadruplo intenſior: ꝛ ſic deinceps vt ponit̃ in caſu. ergo tota caliditas in fine erit infinite intenſa: ꝛ cōſimilr arguit̃ de ſiccitate: qꝛ in prima parte pari erit ſiccitas aliquāta: ꝛ in ſcda parte pari in quadruplo inteſior: ꝛ ſic in ifinitū vt ponit̃ in caſu. ergo tam caliditas .a. q̄ ſua ſiccitas in fine erit infinite intenſa: ꝛ ſic ſequit̃ ꝙ totum .a. erit infinite intenſuꝫ in fine: ꝛ .b. ſolum finite intenſum: eo ꝙ ſiccitas eſt finita ꝛ etiam

ſua caliditas vt patet in caſu. igitur in infinitum maiora/
bitur proportio intenſionis.a.ſupra intenſionem.b. quod
6ª ȝ. fuit pbādū.ergo ſeqꝛ ↄclo. ¶ De ēt ſexta ↄclo ſequat ex
pōne arꝰ ſic. Ponat de.b.vt in caſu pcedēte:ita ꝙ.b.ſit diſ/
poſitū vt in caſu pcedēte in fine totiꝰ remiſſionis:⁊ ponat
ꝙ in oī pte pportionali.a.īpari ſit tāta caliditas ſicut erit in
fine tpis in caſu pꝰrioꝛ ⁊ ɔſilr ēt ſit de ſiccitate in ptibꝰ pa/
ribꝰ vt poſitū eſt pro fine tpis in caſu pꝰrio:ſit tñ in oī pte
īpari ita remiſſa ſiccitas ⁊ in oī pte pari ita remiſſa cali/
ditas ꝙ in oī pte pportionali.a.ſit gradus medius ppor/
tionalis iter calitatē ⁊ ſiccitatē in duplo remiſſioꝛ ꝙ̄ gra/
dus mediꝰ pportionalis inter ſiccitatē ⁊ calitatē in pte p/
portiōali corrīdēte.b.ſm ꝙ eſt ſatis poſe: eo ꝙ ꝙ̄tūcūqꝫ
ſit magna caliditas ita remiſſa pōt ee ſiccitas ꝙ quocūqꝫ
gradu dato pōt gradus mediꝰ pportiōalis iter calitatē ⁊
ſiccitatē eē remiſſioꝛ vt ɔſtat intuēti: qꝛ data aliq̄ calitate
⁊ ſiccitate aª remiſſioꝛi iter iſtas eſt gradus mediꝰ ppor/
tiōalis aliq̄lr intēſus:⁊ iter eandē calitatē ⁊ aliā ſiccitatē
eſt gradus mediꝰ pportiōalis in duº remiſſioꝛ: ⁊ ſic in ifim
vt notū eſt. Jō iſto caſu poſito ſeqꝛ ȝ. naꝫ ꝙ q̄lꝫ ps ppor/
tionalis.a.ſit in duplo remiſſioꝛ ꝙ̄ ps pportionalis.b.ſibi
corrīdēs ꝑꝫ:eo ꝙ gradus mediꝰ pportiōalis iter calitatē
cuiuſlibꝫ ptis pportiōalis.a.⁊ ſuam ſiccitatē eſt in duº re/
miſſioꝛ ꝙ̄ eſt gradus mediꝰ pportiōalis iter calitatē ⁊ ſic/
citatē ptis pporlis corrīdētis.b. ⁊ q̄lꝫ ps pporlis.a. eſt eq̄
intēſa cū gº meº pporli iter calitatem ſuā ⁊ ſuā ſiccitatem: ⁊ q̄lꝫ ps
pporlis.b.eſt eq̄ intēſa cū gº meº pporli iter ſuā ſiccitatem ⁊ cali
ditatē ſuā ꝑ pōnē. ḡ q̄lꝫ ps pporlis.a. eſt in duº remiſſioꝛ
ꝙ̄ ps ſibi corrīdens in.b. Et ꝙ ꝙ̄tūcūqꝫ pporne data pporne
maiori ſit.a.intēſiꝰ.b.ꝑꝫ:qꝛ.a.eſt ifinite itenſum:eo ꝙ ſua calitas
eſt ifinita ⁊ ēt ſiccitas:vt pꝛ ex argᵐ eſt in ȝne pꝰria:⁊.b.eſt ſolū
finite intēſuꝫ:eo ꝙ tā calitas eſt finita ꝙ̄ ēt ſiccitas vt ꝑꝫ.
ḡ ſeqꝛ ↄclo. ¶ Alia ēt ↄclo 7ª ⁊ 8ª ſequitur poſito caſu q
7ª ȝ ponebat ad pbatiōeꝫ earūdeꝫ ȝnuꝫ in pōne pꝰria. Nam
in caſu iſto idē eſt gº mediꝰ pporlis iter calitatē ⁊ ſiccitatē
vtriuſqꝫ medietatis:qꝛ calitas in medietate vna ⁊ ſiccitas
in eadē ſūt eq̄les calitati ⁊ ſiccitati in alia medietate. Et ꝙ
totū ſit difforme ꝑꝫ:qꝛ capiat ps cōpoſita ex duabꝰ q̄rtis
itermediꝭ:tūc calitas iſtiꝰ ptis corrīdet gradui vt ſex:vl
gradui vt octo:vt ibi dī:⁊ ɔſilr eſt de ſiccitate: ſꝫ gº vt ſex
eſt intēſioꝛ ꝙ̄ gº mediꝰ pporlis iter octo ⁊ q̄tuoꝛ vt ſatꝭ ꝑꝫ.
igiꝛ iſta ps eſt intēſioꝛ ꝙ̄ aliq̄ medietas totiꝰ ad pūctū meᵐ
8ª ȝ determiata.igiꝛ totū eſt diffoꝛe.igiꝛ ꝑꝫ ↄclo 7ª. ¶ Et 8ª ȝ
ꝑꝫ ꝑ ideꝫ.pª.n.ps pbata eſt: ⁊ 2ª ꝑꝫ:eo ꝙ gº mediꝰ pporlis
iter ſiccitatem ⁊ calitatē vtriuſqꝫ medietatis eſt remiſſioꝛ ꝙ̄ gº
vt ſex: ⁊ tota calitas corrīdet gradui vt ſex vel vt octo:⁊
ſilr tota ſiccitas:⁊ per ɔñs totū eſt intēſuꝫ gradu vt ſex vl
ḡdu intēſioꝛi.ſeqꝛ ḡ ↄclo. ¶ Cōtra iſtas duas ȝnes arꝰ vt
9ª ȝ pus. ¶ Et ꝙ 9ª ↄclo ſeq̄ꝛ ex pōne arꝰ ſic. Ponat caſus iſte
ꝙ.a.ſit ɔſilr diſpoſitū ſicut erit in fine in caſu poſito ad pba
tionē q̄nte ȝnis ȝ iſtā pōneꝫ reducte ꝑter B qd̄ vbi ponit
ꝙ gº mediꝰ pporlis iter calitateꝫ ⁊ ſiccitatē cuiuſlibet ptis
pporlis.a.ſit eq̄lis gradui meº pporli inter calitatē ⁊ ſiccitatem
ptis corrīdētis.b.hic aūt ponat ꝙ rīdeat ſiccitati corrī/
denti ptis.b. ⁊ ſeqꝛ ꝙ pª ps pporlis ipſiꝰ.a.eſt aliq̄lr itēſa:
⁊ 2ª ps pporlis in duplo remiſſioꝛ:⁊ 3ª in q̄druplo: ⁊ ſic in
ifim:qꝛ in iſto caſu in fine erit ſiccitas pe ptis pporlis aliq̄lr
intēſa:⁊ ſiccitas 2e ptis pporlis.b.in duº remiſſioꝛ: ⁊ ſic in
infim:⁊ gº mediꝰ pporlis iter calitatem ⁊ ſiccitatem cuiuſlꝫ ptis p/
portiōalis.a.eē eq̄ intēſiꝰ cū ſiccitate ptis pporlis corrīdētis in
b. ⁊ q̄lꝫ ps pporlis.a.in fine erit ɔſilr intēſa: ſic gº medius
pporlis iter calitatē ⁊ ſiccitatem eiuſdē ptis. igiꝛ pª ps pporlis
a.nūc erit aliq̄lr intēſa ⁊ 2ª in duº remiſſioꝛ ⁊ ſic deinceps:⁊
nūc eſt.a.ɔſilr diſpoſitū ſicut tūc erit.ḡ pª ps pporlis eſt nūc
aliqualr intēſa:⁊ 2ª in duº remiſſioꝛ:⁊ ſic in ifim: ⁊ totum.a.
eſt ifinite intēſuꝫ:qꝛ calitas eſt ifinita ⁊ ſiccitas eſt infinita
vt ibi arguebatur: ſequentꝛ igiꝛ cōtra iſtā poſitioneꝫ incō
ueniētia ſicut contra alias.

Pro iſtis ſuſtinēda eſt 3ª pō.ſ.ꝙ oē elitū hñs duas Suſtinet
qualitates pmas inequē intēſas eſt eque 3ª pō.
intēſuꝫ cū gradu medio pporli inter iſtas q̄litates:⁊ ſi vna
qualitas eiꝰ foret vt octo ⁊ alia vt duo mediꝰ gradus ppor
tionalis inter iſtas eſt vt q̄tuoꝛ: ⁊ ideo totū corrīdet gra/
dui vt q̄tuoꝛ:⁊ ſic necio remiſſa vna q̄litate ⁊ ſtāte aª totū
dꝫ remitti. ¶ Et tūc ad pmā ȝneꝫ negat iſta:⁊ ad pbatio/ Ad pmam
nem admittat caſus:⁊ dī ꝙ in fine erit remiſſius ꝙ̄ ſex:qꝛ ȝnem.
gradus mediꝰ pportionalis iter octo ⁊ q̄tuoꝛ eſt remiſſioꝛ
ꝙ̄ ſex. Et tūc cū arguiꝛ ꝙ ſiccitas tūc faciet vt duo ⁊ cali/
ditas vt q̄tuoꝛ.negat:qꝛ eq̄lis calitas cum ſiccitate remiſ/
ſioꝛi minꝰ facit ꝙ̄ cū intēſioꝛi:⁊ iō ſicut ſiccitas erit tūc re/
miſſioꝛ ꝙ̄ nūc eſt: ita tūc minꝰ faciet ꝙ̄ in pnº:⁊ ideo tunc
nō faciet vt q̄tuoꝛ in cōpatiōe ad totū:⁊ ſic nō pcedit arᵐ.
¶ Pro 3ª ȝne cōcediꝛ ⁊ ſilr 4ª:⁊ ſic etiā quinta ⁊ ſepta.⁊ Ad 3am
tūc ad argᵐ in oppoᵐ ↄcediꝛ ꝙ ad oēm punctū erit eq̄lis
remiſſio ſicut ad aliquē:⁊ tūc cū dī ad nullum punctū erit
intēſio.hoc neꝛ:qꝛ ad punctū mediū erit remiſſio vtriuſqꝫ
medietatis:⁊ tñ ad eundē punctū erit intēſio totiꝰ corpis ⁊
cuiuſlꝫ alteriꝰ ptis cuiꝰ iſte punctꝰ eſt mediꝰ:⁊ ſi ex iſto ar/
guiꝛ.igiꝛ ad eundeꝫ punctū ſil eſt intēſio ⁊ remiſſio:dī ꝙ
nō eſt incōueniēs:⁊ hoc reᵐ diuerſoꝝ:quoꝝ vnū intēdeꝛ ⁊
aliud remitteꝛ:⁊ tūc intelligꝛ ꝙ ly ad capiꝛ ibi excluſiue.
¶ Ad argᵐ ↄtra 4am ȝnem negat iſta ɔña.ſ.ad oēm pun Ad arm
ctū vniꝰ erit equalis remiſſio ſicut ad aliquē punctuꝫ cor/ ȝ 4am
rīdentē alteriꝰ.ḡ ſi ſunt nūc eque intēſa ↄtinue erunt eque
intēſa:qꝛ lꝫ ad oīa puncta erit eq̄lis remiſſio: hoc nō eſt in
cōparatione ad tota ſubiecta:ſed in cōpatione ad ptes ad
iª puncta terminatas:⁊ ſic ſoluiꝛ ↄclo. ¶ Ad argᵐ ȝ q̄ntaꝫ Ad arm
ȝnem negat iſta ɔña. ad oēm punctū.a.erit pciſe equalis ȝ 5am
remiſſio ſicut ad aliquē punctū corrīdentē.b. ḡ equalr re
mitteꝛ vnū ſicut reliquū:qꝛ ſtat.a.ↄtinue intēdi:lꝫ ad oēm
punctū ſit equalis remiſſio:tñ q̄nta ↄclo pōt negari: eo ꝙ
in ifinitū intēdeꝛ pma ps pportionalis.a. incipiēdo diui/
ſionē in alio extremo ipſiuſ:vt argꝛ de toto.a. ſed ↄclo eſt
cōcedēda:qꝛ ſꝫ illā diuiſionē oēs ptes pporles.a. eque/
remittenꝛ:⁊ ſic ↄclo nō eſt incōueniēs. ¶ Cōſilr dicꝛ ad Ad 6am
ſextū ꝙ quelꝫ ps pportionalis.a.ſm iſtā diſionē eſt in duº
remiſſioꝛ ꝙ̄ ps pporlis.b.corrīdēs: ſꝫ nō ſm aliā diſionē.
⁊ dī ꝙ.a.eſt difforme:⁊ tūc qñ arguiꝛ. igiꝛ ſi q̄lꝫ ps ppor
tionalis.b.ſit in duº intēſioꝛ ꝙ̄ ps corrīdēs.a.ſeqꝛ.b.eē in/
tenſius.a.dī ꝙ nō ſeqꝛ accipiēdo ptē pporlem ſm iſtā diuiſio/
nem. Si tñ ſimplr cōcederet de oī pte pporli ſequeret ꝙ
a.nō foret ifinite intēſius.b. ¶ Ad ſeptimā ⁊ octauā ȝneꝫ Ad 7am
cōcedanꝛ:⁊ ad argᵃ in oppoᵐ negat hec ɔña. Preciſe ad ⁊ 8am.
oēm punctū eſt eq̄lis intēſio.igiꝛ totuꝫ nō eſt difforme:qꝛ
lꝫ ad oēm punctū ſit eq̄lis intēſio/ad aliquē tñ punctū eſt
aliq̄ intēſio alicuiꝰ ptis cuiꝰ.ſ.iſte punctꝰ eſt mediꝰ:⁊ tñ ad
eundeꝫ punctū eſt minoꝛ intēſio alteriꝰ ptis que ad iſtum
punctū termiaꝛ:cuiꝰ.ſ.iſte punctꝰ nō eſt punctꝰ intrinſecꝰ
tenēdo ly ad excluſiue vt pdiciꝛ:⁊ ſic nō pcedit argumētū.
¶ Ad nonā ȝneꝫ ↄcediꝛ ꝙ ſm iſtā diuiſionē pª ps ppor/ Ad 9am
tionalis eſt aliq̄lr intēſa ⁊c. Sꝫ accipiēdo diuiſionē in alio ex/
tremo pª ps pporlis eēt ifinite intēſa:qꝛ iſta ↄtineret ſcdaꝫ
ptē pporlem ⁊ reſiduas in qbꝰ argutū eſt ꝙ calitas eſt ifinita
⁊ ſiccitas ifinita. ¶ Et tūc ad argᵐ in oppᵐ negat ↄñia:ſi
quelꝫ ps pporlis eſt eq̄ intēſa cū pª totū eēt finite intēſuꝫ.
ſtaret.n.ꝙ gradus mediꝰ pporlis iter calitatē ⁊ ſiccitatem
cuiuſlꝫ ptis pporlis ſm iſtā diuiſionē eēt tantꝰ ſicut gradus
medius pporlis iter calitatē ⁊ ſiccitatē pme ptis pporlis:
dū tñ ſm diuerſas ptes tam calitas ꝙ̄ ſiccitas maioreꝛ in
infinitū vel ſit infinite magna:⁊ ſic argᵐ nō pcedit.

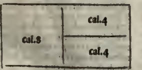
¶ Tractatus Quartus de intēſione ⁊ remiſſione mixtoꝝ.

pª pō. **R**Eſtat pōnes cōcernētes intenſionē ⁊ re-
miſſionē mixtoꝝ tāgere ⁊ ſunt 4ᵒʳ
in numero. ¶ Pria ponit ꝙ intēſio mixti ſe-
quit̄ ꝓportione elti dominātis ad elt̄u ſub-
dominās vt ſi ſit mixtū ex calido ⁊ frigido ⁊
caliditas ſit maior ꝙ̄ friditas: tūc illud mixtū eſt alio inten-
ſius ſicut ꝓportio caliditatis ad frigiditatē in iſto eſt maior
ꝓportiōe caliditatis ad friditatē in alio mixto: ⁊ penes hoc
ꝙ iſta ꝓportio maiorat̄ ſic maiorat̄ iꝰ intenſio: ⁊ ſi ꝓporᵒ
2ª minorat̄: tūc intēſio iꝰ minorat̄ ⁊c. ¶ Scda pō ponit ꝙ oē
mixtū eſt eque intēſū ſicut eſt eltū dn̄ans in eo: vt ſi cali-
ditas alicuꝰ mixti eſſet vt quatuor ⁊ friditas vt duo: tunc
3ª totū eſſet ita intēſū ſicut calidū vt quatuor. ¶ Tertia po-
nit ꝙ oē mixtū eſt in duꝰ remiſſius ꝙ̄ ſimplex equalr̄ di-
ſtans a nō gradu per q̄ntū eltū dn̄ans excedit eltū ſub-
dominās: vt ſi caliditas in mixto excederet ſuā friditatē ꝑ
quatuor: tūc totū mixtū eſſet calidū vt duo: ⁊ addit etiā
ꝙ idᵐ mixtū eſt equalr̄ intēſū ſicut ſi eltū dn̄ans vel q̄li-
tas dn̄ans foret vna medietas per ſe vel extēderetur per
vnā medietatē: ⁊ aliud eltū .ſ. ſubdn̄ans eſſet aª medie-
4ª tas ſeu q̄litas extēſa ꝑ aliā medietatē. ¶ Quarta ponit ꝙ
attēdit̄ penes exceſſū dn̄antis elti ſupra eltū ſubdn̄ans
ita ꝙ idᵐ mixtū eſt eq̄lr̄ intēſū cū ſimplici equalr̄ diſtante
a nō gradu ſicut eltū dn̄ans excedit eltum ſubdn̄ans. Et
hec eſt bipartita. Una enī ponit ꝙ oīs qualitas eſt eque
intēſa ſicut aliqua eiꝰ pars: ⁊ ꝙ penes exceſſum qualitatis
ſumme ſeu maxime dn̄antis ſupra q̄litatē aliā ſeu ꝑ totū
extēdat̄ ſeu per ꝑtes hꝫ intēſio totiꝰ attēdi. Sed alia pōit
ꝙ ſi qualitas ſit difformis extēſa per aliqđ ſubm ꝯ̄a cor-
rńdet alicui gradui intrinſeco: ⁊ ſic penes exceſſū gradus
cui corrńdet iª q̄litas intēſior ſupra gradū cui corrńdet aª
qualitas .ſ. remiſſior attēdit̄ intēſio huius mixti. Si etiam
qualitas dn̄ans extēdat̄ per ꝑtes ⁊ nō per totū: ⁊ ēt q̄litas
ſubdn̄ans: tūc vt dictū eſt vbi tāgit̄ de denoīatione quali-
tatis: illa q̄litas nō denoīat totū ita itēſū ſicut eſt gradus
illius qualitatis: ſed ſub aliquo gradu remiſſiori. Capiat̄
igit̄ gradus quo q̄litas intēſior denoīaret totū ꝑ cuiꝰ ꝑtes
extendit̄: ⁊ capiat gradus quo q̄litas remiſſior ſufficit de-
noīare totū ſubm ſi per ſe ibi eſſet ⁊ penes exceſſū vnius
talis gradus ſupra aliū totiꝰ intēſio attēdit̄: vt ſi caliditas vt
octo extēderet per vnā medietatē ⁊ friditas vt quatuor
extēderet̄ per aliā medietatē: tūc iſta q̄litas vt octo iuxta
pōnē vnā ſufficit totū ſubm denoīare ſolū gradu vt 4ᵒʳ
deducta friditate: ⁊ iª friditas deducta caliditate denoīaret
totū gradu vt duo. ideo exceſſus denoīatiōis vnius ſupra
aliā eſt ſolum binarius: ⁊ ideo totū mixtū eſt ita intēſum
ſicut ſimplex vt duo.

3 pᵃᵐ pōnē **Contra primā** pōnem arguit̄ eā vnica ratiōe
ꝓpoᵐ: ex iª enī ſeq̄t̄ ꝙ infinite
intēſius eſt aliqđ remiſſū mixtū ꝙ̄ ſummū. Signet̄ enim
aliqđ mixtū cuiꝰ caliditas intēdat̄ ad ſummū ⁊ friditas re-
mittat̄ ad nō gradū: tūc in infiᵐ maiorabit̄ ꝓportio cali-
ditatis ſupra friditatē eo ꝙ caliditas cōtinue erit maior ꝙ̄
nūc eſt ⁊ ad ſui ſubduplū ſubquadruplū ſuboctuplum:
⁊ ſic in īfiᵐ remittet̄ friditas: ⁊ per ꝯ̄ns īfinite intēſū erit
an̄ finē. ꝯ̄ña tenet ꝑ pōnē. Ponat̄ igit̄ ꝙ ſub quocūq₃ gra-
du erit hoc mixtū ꝙ ſit aliud mixtū ſic intēſum: ita ꝙ ſint
infinita mixta: ⁊ ſeq̄t̄ ꝙ cū īfinite intēſū erit pᵐ mixtum
datū ꝙ īfinite eſt aliqđ iſtoꝝ intēſū: q2 eque intenſum eſt
aliqđ iſtoꝝ ſicut vnq̄ erit illud: ⁊ gradus ſummꝰ eſt ſolū
finite intēſus: q2 finite diſtat a nō gradu vt arguit̄ vbi tā-
git̄ penes qđ ſimplr̄ attēdit̄ intēſio ⁊ remiſſio qualitatis.
igit̄ ſeq̄t̄ ꝙ īfinite intēſius eſt aliqđ iſtoꝝ ꝙ̄ ſummū: ⁊ qōlꝫ
iſtoꝝ eſt remiſſum ⁊ mixtū. igit̄ ſeq̄t̄ ꝯclō que tn̄ eſt falſa:

q2 friditas impedit denoīationē caliditatis. igit̄ nunq̄ erit
mixtū: lꝫ hēt caliditatē ſummā eque intenᶜ calꝫ ſicut ſūme
calm. igit̄ nec a multo fortiori intenſius cū iº caˢ nunq̄ erit
ſummū q̄diu habebit friditatē ſecū admixtā ſeu coextē-
ſā. ¶ Itē ſeq̄t̄ ꝙ vbi aq̄ pura inciperet agere in ignē ſum-
mū ſubito gn̄aret aliqđ īfinite calm: q2 ſubito gn̄aret fri-
giditatē nᵐ: nī certā nec per certā latitudinē ſubito ibi re-
mitteret caliditatem: eo ꝙ īfinite velociter ageret. igit̄ imeᵗᵉ
poſt iſtud inſtās gn̄aret mixtū in quo īfinite magna eſſet
ꝓportio caliditatis ad friditatē. cū igit̄ intēſio mixti ſeq̄t̄
ꝓportionē q̄litatis dn̄antis ſupra q̄litatē ſubdn̄antē: ſeq̄t̄
ꝙ imediate poſt hoc gn̄aret mixtū īfinite calm. g̃ ſeq̄t̄ ꝯ.
¶ Cōtra quā ſic arguit̄. pº nō eſt nāle ꝙ fridū gn̄et calm
vel intēdat. 2º ſic: ex quo iducit friditatē potiꝰ denoīationē
calidi īpediret iª acᵉ ꝙ̄ ꝓmoueret: ⁊ ita cū in ꝑncipio tota
caliditas ſolū finite denoīat. g̃ inducta friditate nō īfini-
te denoīabit. g̃ iª poſitio nō eſt vera.

Pro 2ª pōne q̄ ē Heſbe-ri. **Pro ſecūda** pōne ſic arᵉ. Signet̄ mixtū ex calᵈº
⁊ frido. ⁊ arᵉ ſic. eadē eſt mā mixti ⁊
ſimplicis. g̃ iª caliditas eq̄lr̄ denoīabit mixtū eē calidum ⁊
ſimplex eo ꝙ eadē ē caliditas mixti ⁊ ſimplicis. ſi igit̄ fridi-
tas nō īpediet dnoīationē ſimplicis ab iª caliditate ꝑ idē nō
3 pōnē īpediet denoīationē mixti ab eadē caliditate. ¶ Cōtra illā
ſic arguit̄. Ex iº ſeq̄t̄ ꝙ vbicūq₃ mixtū calm remittet̄ ad
nō gradū eē calidi ſubito magnā latitudinē intēſionis de-
perdet. Ex q̄ ſeq̄t̄ ꝙ aliquid infinite veloʳ aget ꝑ certū tē-
pus: ⁊ ꝙ ex ꝓportiōe finita ꝓueniet motꝰ īfinitꝰ. ¶ Pria
ꝯclō arᵉ ſic. Sit .a. mixtū ex calido ⁊ frido cuiꝰ .b. ſit eltum
dn̄ans ⁊ calm ⁊ remittat̄ caliditas .b. ad gradū mediū ⁊ intē-
dat̄ friditas .a. ad mediū: q2 aliter .a. nō remitteret̄ ad nō
gradū eē calidi: tūc ſic arguit̄ .a. ⁊ .b. ꝯtinue ante finē erunt
eque calida: ⁊ in fine .a. erit nō calm ⁊ .b. calidum in gradu
medio. g̃ totā latitudinē intēſionis a gradu medio vſq₃ ad
nō gradū ſubito deꝑdet .a. ⁊ ſic de oī alio eſt arguēdum.
2ª igit̄ ſeq̄t̄ ꝯclō. ¶ Scda ꝯclō etiā ſequit̄: q2 ponat̄ ꝙ illud
agēs qđ remittet caliditatē .a. priꝰ remittat caliditatē ad meᵐ
ad puncta ꝓpinquiora ſibi ꝙ̄ remotiora: ita ꝙ in oī inſtāti
huiꝰ tpis erit caliditas ad aliquē punctū ad gradū medium
⁊ ꝙ ꝯtinue an̄ iſtud inſtās erat caliditas itēſior ad iſtū pun-
ctū ꝙ̄ tūc erit ſicut eſt veꝝ: eo ꝙ citius remittet caliditatem
ad gradū mediū ad pūcta ſibi ꝓpinquiora ꝙ̄ remotiora: q2
velociꝰ aget in ꝓpinquū ꝙ̄ in remotū: quo poſito an̄ qōlꝫ
inſtās imeᵗᵉ poſt hoc erit aliq̄ pars intenſa ſupra gradum
mediū que in illo inſtāti nō eſt aliq̄lr̄ intēſa. igitur an̄ qōlꝫ
inſtās imeᵗᵉ ſubito totā latitudinē a gradu medio vſq₃ ad
nō gradū deꝑdet. g̃ iſtud remittēs infinite velociter aget
3ª per totū tpꝰ. ergo ſeq̄t̄ ſcda ꝯclō. ¶ Cum igit̄ illud agens
erit ſolū finite potētie: ⁊ .a. finite reſiſtētie ⁊ infinite velo-
citer remittet̄: ſeq̄t̄ ꝙ ex ꝓportiōe finita ꝓuenit actio īfi-
4ª nita que fuit ꝯclō tertia deducēda. ¶ Item ſequit̄ ꝙ .a. b.
ſunt duo ꝑciſe eque calida que ꝯtinue equeuelʳ remittent̄:
⁊ tn̄ citius deueniet .a. ad nō gradū ⁊ fiet nō calidū ꝙ̄ .b.
In caſu enī precedēti .a. b. ſunt eque calida ꝑciſe ⁊ ꝯtinue
an̄ finē erūt eque calida per pōnē ⁊ ꝯtinue an̄ finē equeʳ
remittent̄ ⁊ in fine .a. erit nō calm vt cōſtat: q2 tūc tantū
habebit de caliditate ſicut de friditate: ⁊ .b. tūc erit calm: q2
Rńſio. in gradu medio. g̃ ſeq̄t̄ ꝯclō. ¶ Iō forte dī ꝙ nō eſt incō-
Cōtra ueniēs ꝙ .a. ſubito certam latitudinē deꝑdet. ¶ Cōtra .a.
nullā latitudinē deꝑdet eē calidi niſi per remiſſionē cali-
ditatis ⁊ intēſionē friditatis. igit̄ cū ſubito nulla erit acq̄ſi-
tio friditatis nec remiſſio caliditatis ſeq̄t̄ ꝙ finite velociter
ſolū remittet̄ .a. ⁊ nullā latitudinē ſubito deꝑdet. ¶ Itē
data iª rńſione ſequit̄ 2ª ꝯclō ⁊ 3ª vt prius oīꝰ arguebat̄.
¶ Itē ſic arᵉ ex iº: ſeq̄t̄ ꝙ idē eſt calm ⁊ fridū. Signet̄
enī vnū mixtū cuiꝰ caliditas ſit dupla ad friditatē ⁊ arᵉ ſic.

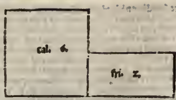
Hec frigiditas nõ ipedit denoiationẽ illi⁹ caliditatis per
põnẽ.ğ lʒ ſibi tãta frigiditas adderet̃ i^a nõ ipediret:⁊ per
ꝯñs nec totũ cõpo^m ex his ſicut ex duob⁹ nõ quãtis nunq̃
fit vnũ q̃ntũ:⁊ ſi ſic lʒ tãta eẽt frigiditas ſicut caliditas nõ
minus totũ denoiaret calidũ:⁊ per ꝯñs adhuc totũ eẽt ca
lidũ ⁊ eadẽ rõne frigidũ:eo q᷑ tãtũ hıet de calitate ſicut de
friditate ꝑciſe. Itẽ rõnale eſt ex quo tota friditas totã de
noiatione eẽ calidi ĩpedit q᷑ pars friditatis ptem tolleret
p^s ad hec a ẽ Ẽ hec ej in reſ. de incipi ſ vetm. denoiatiõis caliditatis:q᷑ tñ nc^t hec poſitio. ⁋ Pro iſtis
forte dr̃ q᷑ latitudo mixti nõ terminat̃ ad nõ gradũ ſimp^r
in extremo remiſſiori:ſʒ ad gradũ me^m toti⁹ latitudis cali
ditatis qui eſt nõ gradus eẽ calidi mixti:eo q᷑ nullũ mix
tũ põt eſſe calidũ i^o gradu:⁊ ſic nullũ mixtũ põt eẽ alio in
duplo min⁹ calidũ:qa omne mixtũ eſt calidũ ſupra me^m:⁊
nullus gradus ſupra gradũ me^m toti⁹ latitudis caliditatis
eſt duplus ad aliũ ſupra me^m vt ꝯſtat:eo q᷑ gradus ſũmus
ꝯ rñſıol. eſt ꝑciſe duplus ad mediũ toti⁹ latitudinis. ⁋ Cõtra hãc
rñſionẽ ar^r:⁊ h̃ ponẽdo q᷑ q̃litas minus denoiat ſubm qñ
extẽdit̃ per ptẽ illius q̃ʒ qñ extẽdit̃ per totũ:vt ꝑus dicit̃:
vbi tãgit̃ de denoiatiõe q̃litatis. ⁋ Alia.n.poſitio eſt po
nẽs q᷑ q̃litas eſt eque itẽſa ſicut aliq̃ pars eius:⁊ tãtũ de
noiat ſicut ſufficit ſiue extẽdat̃ per totũ ſiue nõ:ſi non ad
miſceat̃ cũ ſuo ꝯrio.Sʒ hec rñſio hʒ hãc põnem negare ⁊
negat:qa i^a aliqualr̃ ꝯcederet q᷑ aliqð eſt ſũme calidũ ad
mixtũ cũ ſuo ꝯrio:vel cui⁹ aliq̃ pars eſt frigida vt ſit vna
pars ſũme calida:⁊ alia remiſſe frigida. Hãc tñ rñſionẽ
euitat i^a poſitio qñ po^r ſi nõ admiſceat̃ ſuo ꝯrio ⁊c̃.qa tũc
nõ eſt ibi aliqð reale ipediẽs:ideo ſolũ alij vt ꝓdicit̃ illaʒ
põneʒ z^as poterũt rõnabilr̃ ſuſtinere. Hec igit̃ rñſio cum
põne iuxta ſic ponẽtes multiplr̃ reꝑobat̃. ⁋ Primo ar^r
ſic q᷑ aliqð mixtũ põt eẽ alio in duplo minus calidum:⁊ in
triplo min⁹ calidũ:⁊ ſic de alijs ex quo ſeqt̃ ꝓpo^m. ⁋ Po
nat eiʒ q᷑.a.ſit mixtũ equalr̃ cõpo^m ex calido ⁊ frigido ad
cuius extremũ applicet̃ ſũme calidũ ⁊ agat ꝯti^e ex ꝓpor^ne
quã hʒ ad agẽdũ:⁊ ſeqt̃ q᷑ imediate poſt h̃ erit.a.calidũ:
eo q᷑ nũc eſt equalr̃ cõpo^m ex calido ⁊ frigido:⁊ imediate
poſt h̃ ſua caliditas itẽdet̃ ⁊ nõ ſua frigiditas vt pono:ſʒ
magnũ tp̃s erit anteq̃ʒ.a.erit calidũ ſupra mediũ.igit̃ cũ
ſua q̃litas dñans ꝯtinue erit ſupra mediũ.pʒ põneʒ eẽ fal
ſam.añs pʒ:qa ſi.b.foret vnũ tale:cuius vna medietas ſit
ſũme calida:⁊ alia ſit equalr̃ cõpoſita ex calido ⁊ frido.
Tunc magnũ tp̃s
erit anteq̃ʒ.a. erit
ita intẽſa ſic nunc
eſt.b. qa magnuʒ
tẽpus erit anteq̃ʒ B


medietas.a.ſit ſũ
me cal'a:⁊ anteq̃ʒ
actio ad pũctum
mediũ deueniat:eo q᷑ ꝑus aget in ꝓpinquũ q̃ʒ in remotuʒ.
igit̃ per totuʒ i^o tp̃s erit vna medietas.a.equalr̃ cõpoſita
ſic̃ vna medietas.b.⁊ alia medietas.a.tunc erit remiſſa:et
alia medietas.b.ſũma.igit̃ ꝑ totũ illud tp̃s erit.b.intẽſius
a.⁊.b.ꝑ illud tp̃s erit ita itẽn^m ſic̃ nũc eſt:⁊ nũc eſt eque in
tẽſuʒ ſic̃ ſimplex in gradu medio toti⁹ latitudis cali^tis.igit̃
ꝑ magnũ tp̃s erit.a.remiſſius tali ſimplici.ğ ſeqt̃ q᷑ poſi
tio eſt falſa.añs ar^r:qa poſito ꝑ imaginationẽ q᷑ caliditas
⁊ friditas in medie^te.b.equalr̃ cõpoſita remittant̃ equelo^r
ad nõ g^m totũ.b.nec itẽdet̃ nec remittet̃:q² tãtũ depdet de
ſpe^ie ſue itẽſionis ſic̃ de iuua^e:Sʒ in fine foret in medio g^o
vel correſideret ſimplici in g^o medio vt ar^r.vbi tãgit̃ qualr̃
qualitas ſubm denoiat.igit̃.b.nunc tali gradui correſidet.
⁋ Silr̃ poſito ꝑ imagina^nẽ q᷑ iſta me^tas ſũma.b.remittat̃
ad nõ g^m ſine inductiõe frigiditatis ſtãte alia medietate ⁊
manẽte medie^te i^a remiſſa in fine nõ q̃lificata:⁊.c.eẽt cor

ꝑtes ſũme cal'm ꝑ totũ:qð ꝑ totũ remittet̃ ad nõ g^m calita
tis ſine inductiõe friditatis:tũc in duplo veloci⁹ remittet̃
c.q̃ʒ.b.eo q᷑ remittet̃ ꝑ totũ i^o g^o quo.b.ꝑ medie^tem ſolũ:ſʒ
c.remittet̃ a g^o ſũmo ꝑciſe ad nõ g^m.q̃ʒ.b.remittet̃ a gradu
medio ad nõ g^m:q² ꝑ in duplo minorẽ latitu^nẽ remitteret̃
b.q̃ʒ.c.⁊ ꝑ ꝯñs in pn^o eſt.b.cal'm in g^o medio ſimp^r. ⁋ Itẽ
poſito q᷑ friditas in medie^te equalr̃ cõpoſita.b.inciperet itẽ
di:tũc ſubito ꝑ põnẽ eẽt vna medietas.b.ſupra g^m mediũ
frida:⁊ alia medietas ſũme cal'a.igit̃ totũ tũc correſideret
gradui remiſſiori medio ⁊ nullã latitu^nẽ ſubito deꝑderet:eo
q᷑ friditas ſolũ finite velo^r itẽdet̃ ⁊ nõ remittet̃ niſi ꝑ itẽ
ſionẽ friditatis. ⁋ Et p^a ꝯña arg^r ſic.plus tollit i^a friditas
denoiatione cal'i q̃ʒ ſi eẽt illa medietas ma^a nõ q̃lificata ꝑ
quã nihil extẽderet̃. ⁋ Silr̃ ſi in iſta medie^te eẽt friditas
ſũma tolleret totã denoiationẽ eẽ calidi.ğ cũ i^a medietas
imediate poſt h̃ erit ſupra g^m me^m friditatis:ſeqt̃ q᷑ plus
q̃ʒ medie^tem illi⁹ denoiationis tollet. ⁋ Itẽ dato oppoſito
ſeqt̃ iſta ꝯclo q᷑ aliq̃ ſunt duo calida:q̃rũ medie^tes p^e ſunt
ꝑciſe eque cal'e:⁊ alie medie^tes eque fride:⁊ tñ vnũ eſt alio
itẽſius ſeu calidi⁹.Sit nũc vnũ tale iſtãs in quo medietas
b.eſt frida vt in ꝑori caſu:⁊ totũ eſt cal'm ſupra me^m vt po
nit poſitio:⁊ ſit.c.vnũ tale:cui⁹ vna medietas eſt ſũme cali
da ⁊ alia ſimplex frida eque itẽſa ſic̃ medietas frida.b.et
ſeqt̃ q᷑.b.eſt in magna ꝓpor^ne calidi⁹.c.q².c.eſt calidũ ſub
medio g^o vl' in medio equalr̃ vt põt argui:eo q᷑ tota fridi
tas i^a ſimplex totã denoiationẽ ipediret ſi eẽt ſũma.ğ me
dietas medie^tem:⁊ etiã q² ſi ibi nulla eẽt friditas ſʒ eẽt mã
p^a nõ q̃lificata:tũc eẽt.c.in gradu medio per ꝯarguta.igit̃
nũc correſidet gradui remiſſiori medio:q² frigiditas aliqd
tolleret de ei⁹ denoiatiõe:⁊ tñ medie^tes fride ſunt eque itẽ
ſe ⁊ medie^tes calide. ⁋ Silr̃ ſeqt̃ q᷑ aliq̃ ſunt duo cal'a:q̃ꝝ
vtriuſq̃ eſt vna medietas ſũme cal'a ⁊ vni⁹ alia medietas
eſt cal'a ⁊ alia alteri⁹ eſt frida:⁊ tñ i^a ſunt eque cal'a.ſit vna
medietas.b.ſũma vt ꝑus ⁊ alia cõpoſita:ita q᷑ friditas ſit
ſupra gradũ me^m:⁊ ſit vna medietas.c.ſũme calida ⁊ alia
nõ q̃lificata:⁊ acgrat̃ calitas in medie^te i^a ſucceſſiue ſtãte
alia medietate ſũma:⁊ ſeqt̃ q᷑ ſic remiſſe cal'a põt illa me
dietas eẽ q᷑ totũ correſidebit illi g̃dui ſupra me^m q̃ʒtũcũq̃
modicuʒ diſtet a medio:vt tãgebat̃ ꝑus.igit̃ ſeqt̃ ꝯclo de
b.c. ⁋ Ideo forte dr̃ q᷑ ſi vna ps.b.q̃ʒtũcũq̃ modica eẽt Rñſio
ſũme cal'a ⁊ reſidua pars nõ q̃lificata ſeu nõ cal'a totũ eẽt
ſũme cal'm:⁊ ſic vbi vna medietas eſt ſũme calida:⁊ alia
eq̃lr̃ cõpoſita totũ eſt ſũme cal'm. ⁋ Cõtra i^o ſic ar^r.ex i^o Cõtra
p^a ſeqt̃ q᷑ ſũme cal'm eſt admixtũ cũ ſuo ꝯrio.Silr̃ ſeqt̃ q᷑
aliqd eſt ſũmũ qð erit remiſſiuʒ ⁊ nõ remittet̃:vl' q᷑ aliqd
ifinita velocitate aget ꝑ totã horã ad h̃ iſtãs terminatã.h̃
ſic arg^r. Sit.a.ꝑ totũ ſũme cal'm ⁊ incipiat.b.ſũme friduʒ
applicari ad alteꝝ extremũ ⁊ ꝓgrediat̃ ſua actio ſucceſſi
ue:q² tãtuʒ põt eẽ.a.reſiſtẽs q᷑ actio.b.nõ ſubito ꝑ illð de
ueniet:vt notũ eſt.Signet̃ igit̃ illð iſtãs in quo actio deue
niet ꝑ totũ:⁊ ſit tũc gradus medius friditatis ꝑciſe vel re
miſſior ad extre^m vbi incipit eẽ actio:⁊ ſeqt̃ q᷑ in fine totũ
erit remiſſuʒ:q² vndiq̃ erit calitas remiſſa cũ qua tũc ex
tẽdet̃ friditas ⁊ nunq̃ ante finẽ remittet̃:q² ꝑ rñſionẽ ꝯti^e
ante finẽ erit ſũme cal'm:q² ꝯti^e añ fineʒ erit aliq̃ pars ſũ
ma ⁊ nulla ps frida.igit̃ nunq̃ remittet̃. ⁋ Ideo forte dr̃ Rñſio
q᷑ ime^te ante finẽ remittet̃ ſubito a g̃du ſũmo vſq̃ ad g^m
ſub quo tũc erit. ⁋ Cõtra.ex i^o ſeqt̃ z^a pars diſiũctiue:q² ſi Cõtra
ſic ifinite velociter ime^te añ finẽ remittet̃.⁊ idẽ eſt ar^m de
oı̃ iſtãti illius tp̃is:eo q᷑ ad aliquẽ pũctũ tũc erit actio vbi
ante illð iſtãs nõ erit actio:⁊ ſi ſic ime^te ante q̃ðcũq̃ iſtãs
datũ ifinite velo^r remittet̃ pars ꝑ quã deueniet actio:⁊ ſic
ifinite velox erit ꝯti^e remiſſio alicuius ptis:⁊ ſic ſeqt̃ ꝯclo.
⁋ Itẽ ſeqt̃ i^a ꝯclo q᷑ aliqd eſt ſũme cal'm:⁊ q̃ʒtũcũq̃ tar
de incipit intẽdi frigiditas per i^o ſeu per vnã eius medie

Margin notes (right column): p^ria ꝯña multiplici ter ꝓbat. — 2 — 3 — 4

tatem ſubito diſtaret a gradu ſūmo per certā latitudinē.
que tñ nō videt̄ vera:qꝛ nō remittet̄ niſi per inductionē
fridītatis que eſt ſolū finita inductio.Et ꝙ ꝯcluſio ſequat̄
arguit̄ ſic vt ꝑus.ſit.b.vnū mixtū cuius vna medietas ſit
ſūme calida ⁊ alia equalr̄ cōpoſita ex caliditate ⁊ frigidi-
tate:tūc incipiat frigiditas intēdi per iam medietatē equa-
liter cōpoſitā:⁊ remittat̄ etiā alia medietas vel ſtet:⁊ ſeq-
tur ꝙ.b.eſt ſūmū per riſionē:⁊ ſubito per certaꝫ latitudi-
nē diſtabit a ſūmo:eo ꝙ imediate poſt hoc erit medietas
vna eius remiſſe calida vel ſūme calida:⁊ alia medietas
frigida ſupra mediū:que fridītas aliquā denoiationē eſſe
calidi ſufficit ipedire.igit̄ ſeqt̄ ꝙ imediate poſt h̄ per cer-
Rñ° tā latitudinē diſtabit.b.a ſūmo.ḡ ſeqt̄ ꝯcl'o.¶ Si negat̄
vltima ꝯñia:qꝛ tūc erit caliditas imediate frigida que in
Cōtra nabit denoiationē calidi.¶ Cōtra.h̄ nō ipediret denoia-
tionē frigidi:qꝛ erit remiſſioꝛ ꝙ̄ frigiditas in medietate il-
la.ḡ illa nō inutabit ad intēſionem ſeu denoiationē calidi.
2 ꝯñia pꝫ.⁊ añs ſilr̄ per pōneꝫ.¶ Itē ex iª riſione ſeqt̄ ꝙ
ꝑᶜ medietates.a.b.ſunt eque calide ⁊ alie eque fride:⁊ tñ
a.eſt remiſſius.b.qꝛ ſit de.b.vt ꝑus:⁊ ſit vna medietas.a.
ſūme calida ⁊ alteri' medietatis.a.ſit frigiditas tāta quā-
ta eſt in medietate equalr̄ compoſita.b.ſ.in gradu medio
nō admixta cuꝫ ſuo ꝯ̄rio:⁊ itēdat̄ frigiditas ꝯſilr̄ ꝯtiᶜ in.a.
ſicut in.b.tunc.a.in ꝑnº diſtat a ſūmo:qꝛ vna eiꝰ medietas
eſt frigida:⁊ nullū eſt ſūme calidū cuius vna medietas eſt
frigida:qꝛ iª fridītas aliqd de denoiatiōe totiꝰ ſufficit ipe-
dire:qꝛ aliter nō videret̄ qualr̄ tota.ſ.frigiditas totaꝫ de-
noiationē eē calidi ipediret niſi pars poſſet aliq̄s ptēs ipe-
dire:⁊.a.imediate poſt h̄ per plus diſtabit a gradu ſūmo
ꝙ̄ nūc:qꝛ fridītas itēdet̄ ⁊ nō caliditas.ḡ imediate poſt h̄
a.p certas latiᵗᵘᵈⁱⁿᵉˢ diſtabit a ſūmo:⁊.b.poſt h̄ ꝯtiᶜ erit eque
calidū cū.a.qꝛ medietates calide ꝯtiᶜ erūt eque itēſe:⁊ etiā
medietates fride iuxta pōnē.vel ſi negat̄ ꝯñia:ſeqt̄ ꝙ.a.
erit remiſſius.b.imediate poſt h̄:⁊ tūc hēbit̄ ꝯcl'o:que tñ
eſt oīno ꝯtra rōnē:qꝛ tota calitas.a.erit eque intēſa cū ca-
liditate.b.vel itēſioꝛ:⁊ tota frigiditas eſt eque itēſa cū fri-
giditate.b.vī igit̄ repugnare pōni ꝙ vnū ſit alio intēſius.
Et ſi dicat̄ ꝙ hec poſitio ſit vera in vniformibus ⁊ nō in
difformibꝰ iſufficiēs erit iſta poſitio cuꝫ in rebꝰ multa dif-
2ᵐ pñ'ꝫ hāc poſitionem. formia inueniant̄.¶ Itē ꝯtra iſtā pōnem in ſe argˢ:qꝛ ex
illa ſeqt̄ ꝙ ſi ſit vnū calidū in gradu medio iter ſūmū ⁊ ne
dū:⁊ ſi vtraqꝫ q̄litas abſtrahat̄ ab illo mixto:quaꝝ vna
ponat̄ per vnā medietatē ⁊ alia per aliā:totuꝫ in fine erit
in triplo remiſſius ꝙ̄ in ꝑnº.nā capiat̄ vnū tale mixtū:tūc
ſi vna medietas illiꝰ mixti foret diſpoſita iª calitate:⁊ alia
medietas foret mā ꝑº nō qualificata,totuꝫ corrñderet in-
tēſiue gradui medio inter gradū caliditatis illius medie-
tatis calide ⁊ nō gradū caliditatis.⁊ ille gradus ſolum di-
ſtat a nō gradu per quartā totius latitudinis ⁊ medietatē
vnius quarte.igit̄ tūc corrñdebit gradui diſtāti a nō gra-
du ſoluꝫ per 4.am ⁊ medietatē quarte totius latitudinis.ſi
igit̄ per iam medietatē nō qualificatā extenderet̄ gradus
eque intēſus frigiditatis ſicut eſt gradus caliditatis extē-
ſus per medietatē calidā:iª frigiditas totā eius denoiatio-
nē eſſe calidi tolleret.igit̄ frigiditas ſubtripla 3am ptēꝫ in-
tēſionis tolleret:⁊ iª frigiditas eſt eque itēſa cū frigiditate
hūiꝰ mixti.igit̄ inducta fridītate illiꝰ mixti per medietatē nō
q̄lificatā tolleret 3ᵃᵐ ptē iſtiꝰ itenᵉ quā hēt ſi nō eēt fridi-
tas p illā medietatē.Sꝫ iam tota ſua itenᵒ diſtat a nō gradu
ſolū p 4.ᵃᵐ totiꝰ latiᵗᵘᵈⁱⁿⁱˢ ⁊ ſemiq̄rtā:⁊ ſemiq̄rta eſt 3ᵃ pars to-
tiꝰ latiᵗᵘᵈⁱⁿⁱˢ p quā diſtat.a.a nō gradu vꝫ 3ᵃ pars ſue itenᵗⁱˢ.ḡ
ablata iª ſemiquarta ſolū diſtabit a nō gradu p 4.ᵃᵐ totiꝰ
latiᵗᵘᵈⁱⁿⁱˢ:⁊ p ꝯñs tūc erit in gᵘ meᵒ medietatis remiſſioꝛis totius
latiᵗᵘᵈⁱⁿⁱˢ calitatꝭ:qui ḡdus eſt ſubtriplus ad gᵘᵐ meᵐ medietatis
itēſioꝛis totiꝰ latiᵗᵘᵈⁱⁿⁱˢ ſub quo eſt illō mixtū.ḡ ꝯcluſio vera.



¶ Ex iª ꝯñe ſeqt̄ iª ꝯcl'o ꝙ.a.eſt in triplo intēſius.b.qō cō- Correᵐ.
tinue ꝑciſe in duplo velocius remittet ꝙ̄.b.⁊ tamē eque-
cito deueniet.a.ad nō gradū,nulla latitudine ſubito dep-
dita nec acquiſita:qꝛ ſit.a.tale mixtū in medio gradu me-
dietatis intēſioꝛis totius latitudis calitatis:⁊ ſit vna me-
dietas.b.diſpoſita iª calitate modo ꝑdicto:⁊ alia medie-
tas iª frigiditate:tūc per ꝑus pbatū.a.eſſe in triplo inten-
ſius.b.remittat̄.ḡ eoꝝ calitas ad nō gradū eodē gradu:⁊
in eodē tpe qō eſſe pōt:qꝛ per equalē latitudinē diſtant a
nō gradu iſte due calitates:⁊ ſeqt̄ ꝙ.a.ꝯtinue ꝑciſe in du-
plo velocius remittet̄ ꝙ̄.b.qꝛ eodē gradu per totum quo
b.per medietatē.ḡ in duplo velociꝰ remittet̄.a.ꝙ̄.b.Et ꝙ
equecito deueniāt ad nō gradū eē calidi arguit̄ ſic.Eque-
cito remittent̄ eoꝝ caliditates ad nō gradū per caſum:⁊
etiā equecito remittent̄ eoꝝ caliditates ad equalitatē ſue
frigiditatis.ḡ equecito deuenient ad nō gradū eſſe calidi.ḡ
ꝯcluſio vera.¶ Illud idē ſic pbat̄.Intēdat̄ fridītas vtri-
uſqꝫ ad equalitatē ſue calitatis,ſua calitate nō remiſſā ad
imaginationē eodē gradu cōtinue:⁊ ſequit̄ ꝙ.a.in duplo
velocius ꝯtinue remittet ꝙ̄.b.qꝛ ſolū remittet̄ per itēſio-
nē frigiditatis:⁊ in iſtis eodē gradu intēdent̄ frigiditates
in.a.tñ per totū:⁊ in.b.per medietatē ſolum:ḡ.a.in duplo
velocius remittet̄ ꝙ̄.b.⁊ equecito deueniet ad nō gradū.
Naꝫ equecito eoꝝ frigiditates intēdent̄ ad eq̄litatē cali-
ditatū eorūdē:ex quo per eq̄lē latitudineꝫ diſtāt ab equa-
litate eaꝝ ⁊ eodē gradu intēdent̄.ḡ ſeqt̄ ꝯcluſio.¶ Silr̄ 2ᵐ
ſequit̄ iª ꝯcluſio:ꝙ.a.eſt eque intēſuꝫ cū.b.⁊ ꝯtinue in du-
plo velocius intēdetur ꝙ̄.b.vel plus ꝙ̄ in duplo:⁊ in fine
erit.b.in ſexqoctaua ꝑpoꝛᵗᵉ intēſius.a.hec ꝯcl'o manifeſte
includit ꝯ̄dictionē:⁊ ſequit̄.Nam ſm ꝙ pbat̄.a.eſt in tri-
plo intēſius.b.dato igit̄ ꝙ calitas in.b.foret in triplo intē-
ſioꝛ ꝙ̄ iam eſt ⁊ foret per illā medietatē.b.cōſilr̄ ſicut nūc:
tūc totū.b.foret eque intēſum cuꝫ.a.nā oēm intēſionē quā
habet.b.habet pp calitatē in iª medietate calida extētē.dato
igit̄ ꝙ calitas foret in triplo intēſioꝛ in illa medietate cōſilr̄
extēſa ſicut iaꝫ eſt in triplo plus de itenᵗᵉ ꝯferret:⁊ p ꝯñs
totū.b.foret in triplo itēſius ꝙ̄ nūc eſt:⁊.a.eſt in triplo in-
tēſius.b.ḡ intēſa calitate.b.ad triplū manēte fridītate ſic
iam.b.foret eque itēſuꝫ cū.a.Signet̄ ḡ gradus ſūmus ca-
liditatis per.iiij.⁊ ſequit̄ ꝙ calitas.a.eſt vt tria:⁊ calitas
b.ſiliter.imaginoꝛ ḡ latitudinē calitatis īfinitā vltra gra-
dū iſtū ſūmuꝫ ſignatū per.iiij.ſic tñ ꝙ gradus vt.iiij.cōti-
nue erit gradus ſūmus.ponat̄ tūc ꝙ calitas in.b.intēdat̄
ad gradū triplū ⁊ maneat ꝯtinue ꝯſilr̄ extēſa ſicut iam:⁊
ſequit̄ ꝙ cū iaꝫ ſit caliditas.b.vt 3ª ꝙ in fine erit vt nouē:
⁊ tūc per ꝑus arguta erit.b.eque intēſuꝫ cū.a.Ponat̄ ḡ ꝙ
iam ſit iª inſtās ⁊ ꝙ fridītas tā per totū.a.ꝙ̄ per medieta-
tē.b.remittat̄ eodē gradu ad nō gradū in hora:⁊ equeue-
lociter intēdat̄ calitas in.a.ſicut remittet̄ fridītas ⁊ h̄ per
totū.a.⁊ nō inducat̄ aliqua calitas in.b.per remiſſionē ſue
fridītatis:tunc in fine erit.a.ſūmū.vꝫ.ſub gradu ſignato p
iiij.⁊ tūc erit vna medietas.b.vt.ix.⁊ alia mā non q̄lifica-
ta.ḡ per cōem poſitionē dictaꝫ itenᵒ.b.corrñdebit gradui
medio iter gradū medietatis calide ſignatū per.ix.⁊ non
gradū:⁊ gradus iſte medius eſt vt.iiij.⁊ medietas vnita-
tis que

tia que ſe habet ad.iiij.in ꝓportione ſexqoctaua:⁊ tunc.b. erit itēſum gradu ſignato per.iiij.⁊ medietate vnitatis:⁊ a gradu ſignato per.iiij.ḡ ⁊c̄.Et ꝙ.a.ꝯtinue in duplo velocius intēdet̄ arguo ſic. a.ꝯtinue eodē gradu itēdet̄ per totū quo.b.per medietatē ceteris paribus:ḡ in duplo velocius ꝯtinue intēdet̄.a.q̄ꝫ.b.ḡ ſequit̄ cōcluſio ⁊c̄.

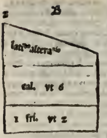
3ᵐ pōſitionem. **Contra** 3ᵐ poſitionē arguit̄ ſic.Primo ſignet̄ vnū mixtū in quo calitas ſupra frigiditatē dn̄et̄ ꝙ ſit.a.⁊ intēdat̄ calitas ad ſūmū ⁊ remittat̄ fridītas ad nō gradū:tūc infinite remiſſa erit hec frigiditas imediate ante finē extēſa per idē ſubīm per qḋ extēdet̄ caliditas.ḡ īfinite modice denoīationē illius calitatis īpediret: ⁊ cū in nulla ꝓportione minus q̄ꝫ gradu ſūmo denoīaret iˢ caliditas ſubīm per qḋ extēdet̄ deducta friditate.ḡ nūc per nihil minus imediate ante finē tꝑis in quo erit ſūmū denoīabit.a.ſubīm per qḋ iˢ calitas extēdet:⁊ per ꝯn̄s itēſio a.mixti gradui intēſiori corrn̄debit q̄ꝫ eſt gradus medius totiꝰ latitudinis calitatis.ꝯn̄s tn̄ repugnat pōni:eo ꝙ nulla qualitas per plus aliā excedit q̄ꝫ eſt tota latitudo illius q̄litatis nec per tātū:⁊ omne mixtū eſt in duplo remiſſius q̄ꝫ ſimplex equalr̄ diſtās a non gradu : ſicut q̄litas dn̄ans excedit q̄litatē ſubdn̄antē.ḡ nullū mixtū pōt eſſe ita intēſum ſicut elemētū exiſtēs ſupra gradū mediū totiꝰ latitudinis q̄litatis a qua idēꝫ mixtū denoīat̄.ſequit̄ ḡ poſitionē eē falſaꝫ.

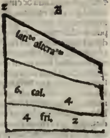
2ᵐ argᵐ ¶ Scḋo arguit̄ ꝯtra iᵃᵐ ſic.Sit.a.vnū mixtū in quo eſt ꝓportio dupla calitatis ad frigiditatē per totū: ⁊ ſit.b.hīs per vnā medietatē tātaꝫ caliditatē ſicut habet a.per totū:⁊ in alia medietate habeat tantā frigiditatē ſicut eſt frigiditas.a.⁊ ſit vtraqꝫ medietas ſimplex.⁊ arguitur tūc ꝙ.b.nō eſt eque intēſum cūꝫ.a.qꝛ.b.pōt intēdi antecꝗ̄ ſit eque intēſum cūꝫ.a.ḡ ⁊c̄.Añs pꝫ:qꝛ ſi in medietatē calidā.b.inducat̄ tāta frigiditas ſicut eſt in alia medietate ſtāte calitate:⁊ in medietateꝫ frigidā inducat̄ tāta caliditas ſicut eſt in medietate calida ſtāte eius friditate : tūc in fine eēt.b.ꝯſilr̄ oīno diſpoſitū cum.a.vt pꝫ:eo ꝙ tūc eēt ꝯſilis caliditas per.a.ſicut per.b.⁊ etiā cōſilis frigiditas:⁊ b.tūc intēderet :ḡ.b.nūc eſt remiſſius.a.ꝯn̄ia tenet ⁊ añs pꝫ:qꝛ plus acqreret.b.de caliditate q̄ꝫ de friditate.⁊ hꝫ per ptes equalē.ḡ ſequit̄ ꝙ.b.poſſet intēdi antecꝗ̄ eēt eque intēſum cūꝫ.a.⁊ ſi ſic:igit̄ nūc.b.eſt remiſſius.a.ſequit ergo 2ᵃᵐ ptem pōnis illius eē falſam.¶ Itē̄ arguit̄ in iᵒ caſu ꝙ poſitio eſt falſa.nā caliditas.b.que extēdit̄ per medietatē eius denoīaret illud ſub gradu medio iter iſtā caliditateꝫ ⁊ nō gradū.ſ.ſub iſto gradu ſub quo eſt iᵃ frigiditas.⁊ hꝫ deducta frigiditate vt dr̄:vbi tāgit̄ de denoīatione q̄litatis extēſe per ptes ſubīi.⁊ iᵒ ꝯcedūt ponentes illā poſitionē.Cum ḡ frigiditas.b.ſit ſubdupla ad caliditatē eiuſdeꝫ:ſequit̄ ꝙ medietatē illius denoīationis īpediet cū extēdet̄ per medietatē ſubīi:⁊ per ꝯſequēs faciet totū.b.denoīari gradu ſubduplo ad gradū ſub quo erit iᵃ friditas: ⁊.b.eſt remiſſius.a.per ſargumē:ḡ.a.corrn̄det gradui intēſiori q̄ꝫ eſt gradus ſubduplus ad friditateꝫ:⁊ frigiditas.a. eſt equalis exceſſui calitatis.a.ſupra frigiditatē ſuā vt pꝫ:eo ꝙ caliditas eſt dupla ad frigiditatē:⁊ per ꝯn̄s corrn̄debit intēſio.a.intēſiori gradui q̄ꝫ eſt gradus ſubduplus ad illū exceſſum:vel q̄ꝫ ſimplex per tātuꝫ diſtās a nō gradu ꝑ q̄ꝫtū calitas excedit friditatē:⁊ ſi ſic/poſitio eſt falſa ⁊c̄.

4ᵃ pō **Sequitur** igit̄ poſitio 4ᵃ ponēs ꝙ intēſio mixti attendat̄ ⁊c̄.pro qua arguit̄ ſic.Sit.a.tale cuius calitas eſt vt.iiij.⁊ friditas vt duo:tunc ſi iᵃ friditas eēt vt.iiij.ſicut eſt calitas:tūc totā denoīationē eſſe calidi īpediret:qꝛ tūc tāta eēt frigiditas ſicut caliditas ⁊ ecōtra. Sꝫ nūc frigiditas eſt in duplo minor q̄ꝫ tūc eēt:ḡ nūc auffert medietatē denoīationis caliditatis quā hēet deducta friditate:⁊ tūc eēt vt.iiij.ḡ nūc eſt intēſum vt duo:⁊ binarius eſt exceſſus calitatis ſupra friditateꝫ.ḡ poſitio vera.

⁊ ꝯſilr̄ eſt arguendū de omni alio mixto ſicut de iſto.⁊ ſic arguit̄ gn̄alr̄ de qualitate extēſa per ſubīm qḋ denoīat illo gradu eque intēſo ſicut eſt iᵃ qualitas deducto ꝯrio : vt ꝑdictū eſt.Et ꝯſilr̄ dr̄ de frigiditate:ḡ quātūꝫ ſufficit frigiditas denoīare/per tātū rōnabilr̄ impediet denoīationeꝫ eē calidi.Sit ḡ in aliquo mixto frigiditas minor calitate: ⁊ ſit.a.gradus ſub quo eſt calitas ⁊.b.ḡ ſub quo eſt frigiditas:tūc caliditas denoīaret ſubīm ſuū.a.gradu deducta frigiditate:⁊.b.ipm ſufficit īpedire per latitudineꝫ correſpōdētē.b.gradui:qꝛ tātō gradui ſufficeret ſubīm ſuū denominare.ḡ rōne iſtius friditatis auferet̄ de denoīatione caliditatis tāta latitudo ſicut eſt a.b.gradu vſqꝫ ad non graduꝫ:aliqḋ igit̄ remanet de denoīatione iſtiꝰ calitatis:⁊ ſequit̄ ſoluꝫ ꝙ remanet illḋ per qḋ.a.excedit.b.igit̄ intēſio b.mixti corrn̄det ſimplici hn̄ti tātā latitudinē per quātaꝫ a.gradus excedit.b.⁊ iſta latitudo eſt equalis exceſſui caliditatis ſupra friditatē: vt poʳ.ḡ ſequit̄ poſitio vlr̄ vera. ¶ Quo etiā ad pᵃᵐ ptē iſtius pōnis argui poterit per hoc ꝙ pꝰs ſuſtinet̄:ꝙ.ſ.oīs qualitas eſt eque intēſa ſicut aliq̄ eius pars:⁊ omne q̄lificatū nō admixtū cum ſuo ꝯrio eſt eque intēſum ſicut aliq̄ eius pars.Calitas igit̄ tātū poᵗ quātū aliq̄ eius pars:⁊ friditas tātū īpedit quātū aliqua eius pars.igit̄ quātꝰ eſt exceſſus maxime calitatis ſupra maximam frigiditatē:tāta erit intēſio iſtius mixti.

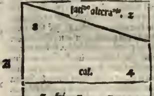
Cōtra quā pōnē ſic argᵗ. Ex iſta ſeqt̄ ꝙ vbicūqꝫ intēdat̄ mixtū per itenᵐᵉ elm̄ti dn̄antis ⁊ remiſſionē elm̄ti ſubdn̄antis:ꝙ illḋ mixtū in duplo velociꝰ intēdet̄ q̄ꝫ ſimpˣ in eo exn̄s:qꝛ equeloʳ remittit̄ vna q̄litas ſicut alia itēdit̄.igit̄ in duplo velociꝰ maiorat̄ exceſſus iter iſtas q̄litates q̄ꝫ maioret̄ intēſio q̄liᵗᵉ itēſioris.ꝯn̄ia nota eſt:eo ꝙ rōne itenᵒⁱˢ q̄litatis dn̄antis equeloʳ maiorat̄ exceſſus ſicut iᵃ q̄litas:poſito ꝙ iᵃ q̄litas ꝯria ēt non remittat̄.⁊ rōne remiſſionis q̄litatis eq̄lr̄ maiorat̄ exceſſus ſicut rōne itēſionis q̄litatis dn̄antis:qꝛ iᵃ remiſſio illa itenⁿⁱ eſt eq̄lis.igit̄ pꝫ ꝙ in duplo velociꝰ maiorat̄ exceſſus dn̄antꝫ ſupra ſubdn̄anꝫ q̄ꝫ iᵒ dn̄ans maioret̄:⁊ mixtū equeloʳ itenʳ ſicut iˢ exceſſus.ḡ ſeqt̄ ꝯclō. 3 pōnem. ¶ Cōtra quā arᵗ ſic.Ex eq̄li ꝓporᵉ itēdit̄ ſimpˣ ⁊ mixtū:eo ꝙ ex ꝓporᵉ etꝰ agētis ad ſibi ꝯrīū in iſto mixto, igit̄ motꝰ erūt eq̄les.ſ.itenᵒ mixti ⁊ itenᵒ ſimplicis dn̄antis. ḡ ꝯclō falſa ſeq̄ns ex poᵉ.igit̄ poſitio falſa. ¶ Itē ex iᵃ ſequitur hec ꝯ ꝙ.a.nūc eſt remiſſius.b.⁊ ad oēꝫ pūctū vniꝰ erit ꝑciſe eq̄lis itenᵒ ſicut ad pūctū corrn̄dētē alteriꝰ ⁊ eq̄lis acqſitio exceſſus:⁊ tn̄ in fine erūt eque itēſa. 2ᵃ ꝯclo ¶ Itē ſeqt̄ ꝙ.a. eſt eque itenᵐ cū.b.⁊ ad oēꝫ pūctū.a.ꝯtiᵉ erit eq̄lis itēſio ⁊ acqſitio exceſſus ſicut ad pūctū corrn̄dētē.b.⁊ in fine erit.a. remiſſius:⁊.b.ſūmū. 3ᵃ ꝯclo ¶ Itē.a.eſt eque itenᵐ cū.b.⁊ ad oēm pūctū.a.ꝯtiᵉ erit remiſſior itenᵒ ⁊ minor acqſitio exceſſus q̄ꝫ ad pūctū corrn̄dētē in.b.⁊ eq̄cito fient ſūma. 4ᵃ ¶ Itē ad oēꝫ pūctū.a.erit itenᵒ tardior q̄ꝫ ad pūctū corrn̄dētē in.b. ⁊ in fine erit.a.itēſius.b.⁊ iam eſt eque itenᵐ. 5ᵃ ¶ Et q̄libet iſtaꝝ repugnet pōni vꝫ:qꝛ ſi itenᵒ mixti attēdat̄ penes exceſſuꝫ ⁊c̄.⁊ equeuelo ʳ itēdet̄ ſicut maiorat̄ exceſſus.ſi igit̄ equeloʳ maioret̄ exceſſus in.a.ſicut in.b.ſeqt̄.a.equeloʳ intēdit̄ cū.b.igit̄ ſi nūc ſit remiſſiꝰ q̄ꝫ.b.ꝯtiᵉ remanebit remiſſius.b.⁊ ſi nūc ſit eque itenᵐ cū.b.ꝯtiᵉ manebit eque itenᵐ cum eo.⁊ ſi tardius itēdat̄ ſemp erit remiſſius.igit̄ q̄libet iſtaꝝ ꝯnū eſt falſa. ¶ Pro 2ᵃ ꝯne ſic arguit̄.Ponat̄ ꝙ caliditas ſūma ſignet̄ ꝑ octo gr̄a argⁱ:⁊ ſit.b.vniforme cum calitate vt ſex:⁊ friditate vt duo : ⁊ ſit calitas.a.vniformiter difformis a 4ᵒʳ vſqꝫ ad ſex:⁊ friditas vniformiter difformis a duobꝰ vſqꝫ ad 4ᵒʳ:⁊ ſit caliditas intēſiᵒ.a.extenſa cūꝫ friditate eiuſdē itēſiſſima:⁊ itēdat̄.b.mediāte latitudine vniformiter difformi terminata non ad gᵘᵐ mediāte cuius extremo itēſiori acqrat̄ vni extremo.b.caliditas vt duo:⁊ remittat̄ friditas equalr̄ ⁊ extēdat̄ iᵃ latitudo ꝯſilr̄ in.a.vſus extremū itēſius:vbi eſt maxima eius calitas. pbaᵒ 2ᵉ ꝯnis.



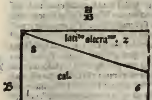


Quo poſito ſeq̄ꝫ q̄.a.eſt remiſſius.b.qꝛ caliditas.a.eſt vt ſex:ꝛ friditas vt 4ᵒʳ:ꝛ in.b.cal'itas eſt vt ſex:ꝛ friditas vt duo.Et q̄ ad oēs pūctū vni⁹ erit eq̄lis acq̄ſitio exceſſus ſic̄ ad pūctū corrn̄dētē alteri⁹,pꝫ:qꝛ eq̄lis iten⁹ eſt cal'itatis ꝛ remiſſio friditatis.Et q̄ in fine.a.erit eque ītēſuꝫ cū.b.pꝫ: qꝛ tūc tota caliditas.a.erit vt octo:ꝛ caliditas.b.ſilr̄ qꝛ eſt eque ītēſuꝫ ſic̄ eſt aliq̄ ei⁹pars:ꝛ friditas.a.tūc erit vt duo: ꝛ fridıtas.b.ſilr̄ qꝛ eque ītēſa ſic̄ aliq̄ ei⁹pars.igiꝫ tūc erit eq̄lis exceſſus toti⁹cal'itatis.a.ſupra friditatēꝫ ſuā ſic̄ caliditas.b.ſupra ſuā friditatē:ꝛ p̄ ꝯſ̄s.a.b.tūc erūt eque ītēſa.ḡ ſeq̄ꝫ iſta zᵃ ꝯclo.❡ Pro 3ᵃ ponaꝫ vt p̄us:ex quo igiꝫ in fine iſti⁹ tp̄is.a.ꝛ.b.erūt eque ītēſa labaꝫ tp̄s ꝛ ſit nunc inſtās vltᵐ.ſ.finis in quo cal'itas.b.ſit vniformiter diffor mis ab octo vſq̄ ad ſex:ꝛ friditas.a.zᵇᵒ vſq̄ ad non gᵐ:ꝛ cal'itas.a.ab.viij.vſq̄ ad 4ᵒʳ vniformiter diffor mis ꝛ frigiditas vniformis vt zᵒ:vt manifeſte pꝫ.ꝛ ponaꝫ q̄ per.a. extēdaꝫ ꝯſil̄is latitudo alteratiōis vt p̄us:ꝛ ſit extreᵐ ītēſius v̄ſus extreᵐ remiſſius:ꝛ in.b.ſilr̄:ꝛ duret p̄ tātū tp̄s ſic̄ p̄us alteratio:ꝛ ſeq̄ꝫ q̄ in fine cal'itas.a. erit ſūma ſicut iāꝫ eſt:ꝛ ſua friditas erit vniformiter difformis a zᵇᵒ vſq̄ ad nō gᵐ:vt pꝫ.igiꝫ.a.erit tunc remiſſum.Et ſeq̄ꝫ q̄.b.in fine erit ſūmuꝫ:qꝛ tūc ſua cal'itas erit vt.viij.nō admixta cum ſuo ꝯ̄rio:ꝛ in p̄nᵒ eſt eque itenᵐ cū.a.qꝛ cal'itas vtriuſq̄ erat vt ſex ꝛ frigiditas vt zᵒ:ꝛ eque velox erit ītēſio ad omnē pūctum corrn̄dētem alteri⁹ vt pꝫ.ergo ſequiꝫ ꝯcluſio.

pba⁹ 3ᵉ

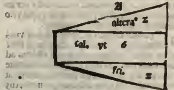


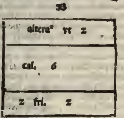
❡ Pro 4ᵃ ꝯ̄ne ſit caliditas.b.vt ſex:et friditas vt duo:et cal'itas.a. vt ſex:ꝛ friditas vnifor' diffor⁹ a duobus vſq̄ ad nō gᵐ:ꝛ ītēdatur b.cal'itas mediā te vno ḡdu mediāte quo fiet ſūmū in bora:ꝛ ītēdaꝫ.a. median te latitudine vni formiter diffor mi terminata ad nō gᵐ ꝛ ad gᵐ ex tenſuꝫ p.b.ita q̄ non gradus alte rationis ſit v̄ſus nō gᵐ friditatis: quo poſito ſequi tur q̄ ad oēꝫ pūctum.a. erit tardior acq̄ſitio ex



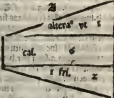
ceſſus q̄ꝫ ad pūctum correſpōdentē in,b,vt ꝯſtat:ꝛ in fine erit.a.ſummūꝫ:qꝛ habebit caliditatē ſummā nō admixtā cum ſuo ꝯ̄rio:ꝛ.b.tūc p̄ erit ſummū.igiꝫ ſequiꝫ ꝯcluſio.

pba⁹ 4ᵉ





❡ Pro 5ᵃ ꝯ̄ne ponaꝫ de.b.vt po⁹ in p̄ caſu:ꝛ ponaꝫ de.a.q̄ cal'itas ſit vt ſex:ꝛ friditas vnifor' difformis a duob⁹ vſq̄ ad vnū:et altereꝫ.a.latiᵗᵉ vnifor' difformi terminata ad gᵐ ſubduplū ad gᵐ termināte iſtā latiᵗᵉ alterᵒⁱˢ in.b.ꝛ terminaꝫ ad nō gᵐ v̄ſus extremū:vbi eſt ſua friditas remiſſior. pba⁹ 5ᵉ



Quo poſito ſeq̄ꝫ q̄.a. b.ſunt eque ītēſa:qꝛ calitᵒʳ cox:ꝛ ēt frigiᵗᵃˢ ſunt eque ītēſe.ꝛ ad oēm pūctū.a.erit tardior ītēſio q̄ꝫ ad pūctū corrn̄dentē in.b. qꝛ in duplo tardior ītēſio caliᵗᵃᵗⁱˢ ꝛ remiſſio frigiᵗᵃᵗⁱˢ vt ꝯſtat p̄ caſuꝫ:ꝛ ī fine erūt eque ītēſa:qꝛ cal'itas.b.tūc erit vt octo:ꝛ friditas vnifor' difformis a duob⁹ vſq̄ ad nō gᵐ.igiꝫ cal'itas.b.tūc excedet friditatē eiuſdē p̄ ſex:ꝛ cal'itas in.a.tūc erit vt.vij.ꝛ ſua frigiᵗᵃˢ vniformis vt vnū:vt pꝫ p̄ pōnē:igiꝫ.a.b.tūc erūt eque ītēſa.igiꝫ ſi latiᵗᵘᵈᵒ alteraᵗⁱᵒ extēſa p.a.terminaꝫ ad gᵐ ītēſiorē q̄ꝫ nūc:ſeq̄ꝫ q̄ in fine.a.eēt ītēſi⁹.b.qꝛ cal'itas ſua tūc eſſet ſupra gᵐ vt ſeptē:ꝛ friditas vt vnū:qꝛ eque ītēſa ſic̄ aliq̄ ei⁹pars.ponaꝫ igiꝫ q̄ alteratio in.a.termineꝫ ad gᵐ in ſex gᵃ altero ītēſiorē q̄ꝫ nūc.ꝛ ſeq̄ꝫ ꝯ̄ manifeſte. ❡ Pro iſtis ꝯcedēda eſt ꝯ̄ p̄ᵃ.ꝛ ꝯcediꝫ q̄ ex eq̄li p̄porᵒⁿᵉ ītēdiꝫ ſimp̄ ſicut mixtū:qꝛ ex p̄porᵒⁿᵉ agētis ad eīnū ſubdn̄ans:ꝛ tn̄ tota ītēſio mixti corrn̄debit gradui ītēſiori q̄ꝫ itenᵒ ſimplicis ꝛ ēt maiori.vn̄ mot⁹ p̄nᶜ ītēr⁹ eſt inductio foꝛe p̄p̄e ꝛ expulſio foꝛᵉ ꝯ̄rie:ꝛ ex remotiōe vni⁹ ꝛ inductiōe alteri⁹ſeq̄ꝫ itenᵒ toti⁹mixti.ꝛ ideo iſta ītēſio mixti nō eſt p̄nᶜ ītēta ab agēte: p̄p̄ q̄ꝺ nō eſt incōueniēs q̄ ab eadē p̄porᵒⁿᵉ agētis ad paſſuꝫ p̄ueniāt mot⁹ ineq̄les:dū tn̄ vnus ex p̄ ītēto p̄ueniat ꝛ ſit p̄ ſe ꝛ ali⁹ p̄ acciñs:ſic̄ pꝫ de circūuolutiōe rote:cui⁹ vna pars moueꝫ de neceſſitate alia p̄te veloci⁹:ꝛ tn̄ idē eſt agens oīuꝫ motuū.ſ.vni⁹ p̄tis ꝛ alteri⁹ p̄tis p̄ductiuū:ꝛ ſic nō p̄cedit argᵐ. ❡ Ad zᵐ ꝯ̄nē ꝯcediꝫ:ꝛ ad argᵐ in oppoᵐ ſcḋm q̄ſ̄ ſic arᶜ.itenᵒ mixti attēdiꝫ penes exceſſuꝫ:ḡ ſi ad oēꝫ pūctū a.eq̄uelo' maioraꝫ exceſſus ſic̄ ad pūctū corrn̄dētē.b.ſeq̄ꝫ q̄ p̄ciſe eq̄uelo' ītēdeꝫ.a.ſic̄.b.negaꝫ ꝯ̄ña:qꝛ abᵘˢ nō valet talis ꝯ̄ña:ſꝫ cū tali meᵒ ad oēꝫ pūctū.a.eſt eq̄lis acq̄ſitio exceſſus ſupra eīnū ſubdn̄ans ſicut ad pūctū corrn̄dētē in.b.ꝛ

Nota
Non inconueniēs q̄ ab eadem p̄porᶜ ꝑueniāt motus inequales.

in.b.⁊ talis acquiſitio exceſſus deſinit ad acquiſitiōez itenm in tali mixto.ꝗ equeloꝛ itēdet ſic.b.qḋ nō eſt verū in ꝓpoſito:qꝛ remiſſio friis in.b.ad pūcta eiꝰ intrinſeca nihil faciet ad totiꝰ frigiis remiſſionē iuxta pōnē illā recitatā.ſ.ꝙ oīs qͣlitas eſt eque itēſa ſicut aliq̄ eiꝰ pars.⁊ ideo ad itēſionē totiꝰ.b.ſolū iuuat itenᵒ caliditatis:ſ ad itēſionē.a.iuuat tā intēſio caliditatis q̄ȝ ēt remiſſio friditatis:qꝛ tota caliditas eiꝰ maiorat:⁊ ēt tota friis in.a.etiā remittet.⁊ ꝭ equeloꝛ ſic caliditas.b.maiorat.⁊ ideo in duplo tardiꝰ intēdet.b.q̄ȝ.a.⁊ ſic nō pceᵈ argm.Cōſilr ſoluit argm ꝯ 3am ꝯneȝ:qꝛ in caſu ibidē poſito tota friditas.a.remittet ad nō gm:⁊ tota friditas.b.nō remittet:vt pdcm̄ eſt.¶ Itē 4a ꝯclo eſt ꝯcedēda:qꝛ in caſu ibidē poſito tota friis.a.terminat ad duo ſub quo gu eſt frigiis in.b.ideo iuxta pōnē recitatā tota frigiis.a.eſt eq̄lis toti frigiti.b.⁊ ad extrem illō vbi eſt maxima frigiis a.equalr ꝯtiᵉ remittet friditas ſic ꝑ totū.b.⁊ ideo lȝ ad pūcta itrinſeca velociꝰ acq̄rat exceſſus caliditatis ſupra friditatē in.b.q̄ȝ in.a.ad extrem:tn̄ vbi eſt maxīa eiꝰ friis equeloꝛ acq̄ret iſ exceſſus in.a.ſic in.b.⁊ ſic ēt totiꝰ calis.a.ſupra totā eiꝰ frigiitē caliᵗᵉ equeloꝛ acq̄reᵗ iſ exceſſus ſic totiꝰ calis.b.ſupra frigiitem:⁊ ſic ſoluit argm in oppm ſi qḋ fiebat.¶ 5a ꝯclo ꝯceᵈ:lȝ.n.ad oēȝ pūctū.b.velociꝰ acq̄rat exceſſus ⁊c.ſꝫ tn̄ remiſſio frigiis ad pūcta.b.nihil ad totiꝰ intēſionē faciet vt dī in ꝯne 2a:ſꝫ tn̄ remiſſio friditatis in.a.faciet vt duo ⁊c.qꝛ in.a.ꝯtiᵉ eſt remiſſio maxime eiꝰ frigiis:⁊ ſic q̄uis tardioꝛ ſit acquiſitio exceſſus in.a.q̄ȝ in.b.tota tn̄ intēſio exceſſus in.a.ad totiꝰ intēſionē faciet:⁊ ſic non faciet in.b.vbi erit maxima acquiſitio talis exceſſus.¶ Oēs iſte ꝯceꝺēde ſunt imaginarie ⁊ negent de facto.naȝ in oībꝰ caſibꝰ iſtis ponit cū eq̄li caliditate inequales frigiis extrēdi. 6us ꝯclo ¶ Itē ex illa pōne ſeq̄t ꝙ.a.b.ſunt equalr calida:q̄rū caliditates ſunt eq̄les:⁊ tn̄ ad oēȝ pūctū.b.eſt maioꝛ exceſſus caliditatis ſupra frigiditatē q̄ȝ ad aliquē pūctū in.a.vel ſeq̄t ꝙ.b.eſt itēſius.a.⁊ tn̄ in nulla ꝓpoꝛᵉ eſt itēſiꝰ.Utraq̄ȝ illaꝝ ꝯnū eſt negāda.Prīa.n.repugnat pōni.Si eiȝ.a.b.ſunt eque itēſa ⁊ ſue caliditates ſilr:ſeq̄t ꝙ tota frigiis.a.eſt eq̄lis toti frigiditati.b.capiat igit pūctꝰ in.b.vbi eſt maxīa eiꝰ caliditas:vl tūc ibi eſt maxīa eiꝰ frigiis:vel nō.Si ſic:igit nō ꝑ totū.b.eſt maioꝛ exceſſus calis ſupra frigiiēȝ q̄ȝ ꝑ totuȝ.a.vel ad aliquē pūctū.a.Si vō nō ſit ibi maxima eiꝰ frigiis capiat pūctꝰ ad quē eſt maxīa eiꝰ frigiis:tūc ſi ibi ſit maxīa eiꝰ caliditas:ſeq̄t ꝙ ad illū nō ſit maioꝛ exceſſus caliditatis ſupra friditatē q̄ȝ ad aliquē pūctū.a.⁊ ſi ibideȝ ſit minoꝛ caliditas q̄ȝ maxima:ita ꝙ maxīa caliditas nō ſit ad illū punctū vbi eſt maxīa friditas.a.ſeq̄t nō ad illū pūctū vbi eſt maxīa friditas.b.eē maiorē exceſſuȝ q̄ȝ ad aliquē pūctū in.a.⁊ ꝑ ꝯñs nō ad oēȝ pūctū ⁊c.ꝗ ſeq̄t ꝯnē illā repugnare pōni:⁊ alia pars illiꝰ diſiūctiue eſt oīno īpoſſiꝫ:cū q̄ vtrūq̄ȝ illoꝝ.ſ.a.⁊.b.eſt finite itenm. Et ꝙ 1a ꝯclo ſequat ex pōne argᵗ ſic.Ponat ꝙ.a.ſit vnū vniforᵉ calm ꝑ totū mixtū ex caliditate ⁊ frigiᵗᵉ:⁊ ſit.c.vnū corpꝰ colūnare ⁊ capio corpꝰ itercepū iter duas lineas circūgyrātes oēs ptes ꝓpoꝛles.c.qḋ ſit.b.⁊ hēat.b.tātā caliditatē ꝑ totū vniformē ſicut hȝ.a.⁊ ſit frigiis b.diffoꝛis termiata in extremo remiſſiori ad gm remiſſiorē q̄ȝ eſt gͣduȝ frigiis.a.⁊ in alio extremo ad gm frigiis.a.⁊ ponat ꝙ in extremo finito.b.ſit extrem remiſſ:uȝ ſue friis alio extremo in ifim ꝓcedēte:quo poſito ſeq̄t.a.b.eē eque itēſa:qꝛ caliditates ſunt eque itēſe.ſilr friditates iuxᵗ illā pōnē:eo ꝙ oīs qͣlitas eſt eque itēſa ſicut aliq̄ pars eiuſdē.Et ꝙ ad oēȝ pūctū.b.ſit maioꝛ exceſſus caliditis ſupra frigiiēȝ q̄ȝ ad aliquē pūctū.a.pȝ:eo ꝙ ad oēȝ pūctū.b.eſt tāta caliditas ſicut ad aliquē pūctū.a.⁊ minoꝛ friis:qꝛ ad oēȝ pūctū.b.eſt frigiditas citra extrem itēſiꝰ totiꝰ frigiis:vt ponit in caſu.igit 7us ꝯclo ſeq̄t ꝯclo.¶ Itē ſeq̄t ex pōne ꝙ vbicūq̄ȝ ſunt aliq̄ duo ⁊ ad oēȝ pūctū vniꝰ eſt tāntꝰ exceſſus caliditatis ſupra frigiiēȝ ſicut ad pūctū correſpondentē alteriꝰ vel ad aliquē pūctū alteriꝰ. Et iſta duo ſint eque itēſa:⁊c. ꝙ ſeq̄tur ſatis appet ex pōne.⁊ ꝙ nō ſit vera argᵗ ſic.Sit.a.vt pꝰs ⁊.b.talis pars corpea vt pꝰs:ita tn̄ ꝙ pm pedale.b.ſit ꝯſilr diſpoſitū in toto ſicut.a.⁊ ſit friis ſcḋi pedalis.b.in duꝰ itēſioꝛ q̄ȝ in p̄ pedali:⁊ in 3o pedali in duplo itēſioꝛ q̄ȝ in 2o:⁊ ſic in infim:maneat tn̄ ad oēȝ pūctū vniꝰ tātꝰ exceſſus ſicut ad aliquē pūctū alteriꝰ:⁊ in oī pedali ſicut in p̄.quo poſito ſeq̄t ꝙ ad oēm pūctū.b.ſit tātus exceſſus ſicut ad aliquē pūctū.a.Et ꝙ iſ nō ſūt equalr calida pȝ:qꝛ.b.nō eſt calm eodē gu cū.a.cū friditas.b.ſit iſinita ⁊ caliditas ꝯſilr:⁊ nulla caliditas pōt excedē friditatē iſinitā.¶ Ideo forte pro iſtis duabꝰ ꝯnibꝰ dī ꝙ.b.terminat ſm vtrūq̄ȝ extrem:⁊ ſic ad pūctū termināte.b.in extremo vbi eſt maxīa eiꝰ friditas nō eſt maioꝛ exceſſus ⁊c.vt argᵗ in ꝯne 6a:nec ad iſtū pūctū in ꝯne 7a eſt tātꝰ exceſſus ſicut in.a.qꝛ ibi nullus eſt exceſſus. Rñ ¶ Cōtra ꝭ argᵗ ſic. Nō includit ꝯdictiōeȝ.b.rectificari nullā q̄ntitatē acq̄rēdo vt cōſtat:⁊ ſi.b.rectificet includit ꝯdictionē ipm ſm vtrūq̄ȝ eiꝰ extrem terminari:qꝛ tūc nō eēt iſinite lōgū ⁊ eēt iſinite lōgum ſicut nūc eſt:qꝛ nullā q̄ntitatē acq̄reret ſeu deꝑderet.igit nō eſt verū.b.ſm vtrūq̄ȝ eiꝰ extremū nūc terminari. Cōtra ¶ Pro iſtis ꝯcedēda eſt 6a ꝯclo.Si tn̄.b.ſm vtrūq̄ȝ eius extrem terminaret ita ꝙ eēt finitū optime ſeq̄t illā ꝯnem pōni repugnare:qꝛ tunc ſeq̄t ꝙ vbi eēt maxīa friditas.b.ꝗ ibi nō eēt maioꝛ exceſſus caliditatis.b.ſupra frigiiēȝ q̄ȝ ad aliquē pūctū.a.ſicut ꝓbat argm ibi ſcḋm:qꝛ tn̄ nullus eſt pūctꝰ vbi eſt maxīa eiꝰ friditas.ideo argm nō ꝓcedit.Silr dicimus ad 7am ꝯnē ipaȝ negādo:tn̄ ſi aliq̄s pūctꝰ eēt vltimus vbi eſt maxima friditas:bn̄ ſeq̄ret ꝯclo. pa ꝯtia. ¶ Seq̄tur ēt ex iſta pōne ꝙ pa pars ꝓpoꝛlis eſt aliq̄lr intēſa:⁊ 2a in duplo itēſioꝛ:⁊ ſic in ifim:⁊ tn̄ totū.a.nō eſt itēſum vt ſit pa pars ꝓpoꝛlis aliq̄lr calida:⁊ ſit ibi ꝓportio dupla caliditatis ad friditatē:⁊ in 2a pte ꝓpoꝛli ſit caliditas in duplo itēſioꝛ q̄ȝ in pa ⁊ in 3a in duplo itēſioꝛ q̄ȝ in 2a:⁊ ſic in ifim.⁊ ꝓportionabilr ſicut in aliq̄ pte caliditas eſt intēſioꝛ ita ſit frigiditas intēſioꝛ:ita ꝙ in omni pte ꝓpoꝛli poſteriori ſit in duplo intēſioꝛ caliditas q̄ȝ in pte imediate p̄cedēte:⁊ ſic etiā ſit de frigiditate.Et pȝ ꝙ 2a pars ꝓpoꝛlis eſt in duplo calidioꝛ pa:qꝛ caliditas ſcḋe ptis eſt in duplo intēſioꝛ q̄ȝ caliditas p̄me ptis:⁊ friditas ſua eſt in duplo intēſioꝛ q̄ȝ frigiditas pe:igit exceſſus caliditatis ſcḋe ptis ꝓportionalis ſupra ſuā frigiditatē eſt in duplo intēſioꝛ q̄ȝ exceſſus caliditatis ſupra frigiditatē pe ptis ꝓportionalis:eo ꝙ inter terminos duplos ꝓportionales eſt in duplo maioꝛ exceſſus q̄ȝ iter terminos ſubduplos cōſilr ꝓportionales vt cōſtat intuēti:⁊ ſic erit 3a pars ꝓportionalis in duplo intēſioꝛ 2a:⁊ ſic in infim.igit ſeq̄t ꝯclo:qꝛ tā tota caliditas q̄ȝ etiā frigiditas eſt iſinita.igit ꝯcedēda eſt ꝯcluſio imaginādo ꝙ cū q̄libet intēſiori caliditate extendat frigiditas intēſioꝛ ⁊c. 8us ꝯclo Regula ꝓportioné. Multa alia ſophiᵃ poſſunt fieri que cōſiderato quantū acquiſitio exceſſus ad puncta intrinſeca ad totius intēſionem conferat ſatis faciliter ſoluuntur.

Sequitur ꝗ 2a pars quarte pōnis pones ꝙ intēſio mixti ſeq̄t exceſſuȝ caliditatis ſupra frigiditatē nō ſimr:ſed capto gradu cui correſponderet denoīatio totius ſubiecti ſi per ſe eēt qͣlitas illa ⁊ gradu quo denoiaret alia qͣlitas ideȝ ſubm ſi iſ eēt per ſe poſita:⁊ tūc penes exceſſum vniꝰ talis gradus ſupra aliū attēdit totiꝰ mixti intēſio.ſi.n.vna qualitas ꝑ ſe tātuȝ denoiaret ſicut alia:totā denoiatiōeȝ alteriꝰ qͣlitatis īpediret.Si igit talis gradus denoiationis vnius ſit ſubduplus ad aliū:medietatē talis denoiatiōis īpedit:⁊ ſic ꝓportionabilr de aliis ptibꝰ iſtius denoiatiōis. 2a pars 4e pōnis. ¶ Cōtra opionē iſtā pñt reduci pa ꝯclo ⁊ 6a ⁊ 7a ⁊ 8a reducte ꝯtra pōnem primā.Pro pa ponat caſus ibi poſitꝰ ⁊ ſoluat vt prius.Itē pro 6a ⁊ 7a ꝯnibꝰ ponat ca ꝯ pōnem.

ſus ibi poſitꝰ φ ſit.b.corpus infinitū:qꝛ iuxta hāc pōnem
tota frigiditas corrñdebit gradui in infiᵐ ꝓcedēti.ꝛ ideo
tota frigiditas.b.erit tāta ſicut tota caliditas.a.ꝛ ideo totꝰ
exceſſus caliditatis.b.ſupra ſuā frigiditatē erit p̄ciſe eq̄lis
toti exceſſui caliditatis.a.ſupra ſuā frigiditatē: ꝛ ſic tota in/
tenſio.b.corrñdebit toti inteñſioni.a.ꝛ ideo ꝯcedēda eſt 6ª
ꝯclo.ꝛ ſoluiꝭ argᵐ in oppoᵐ vt p̄us.❡ Silr 7ª ꝯcluſio eſt
negāda:eo φ tota caliditas.b.eſt īfinita ꝛ etiā frigiditas.ſi
tn̄ eēt pūctꝰ vltimus hn̄s maximā caliditatē optime vale/
ret argᵐ:ſed ſic nō eſt hic vt p̄dicitꝭ.❡ Pro 8ª ꝯne ponatꝭ
caſus p̄ poſitꝰ:ꝛ ꝯcediꝭ ꝯclo.Itē ex hac pōne ſeqꝭ φ aliqd
eſt īfinitū:cuius ſolū pars finita eſt calida:ꝛ totū reſiduū
eſt frigidū:ꝛ tn̄ totū eſt calidū. Silr aliqua ſunt duo ꝯſilr
diſpoſita:quoꝝ vnū eſt calidū ꝛ aliud frigidū.Silr aliqd
eſt frigidū:cuiꝰ quelibet pars terminata ad extremū vnū
eſt īfinite calida.❡ Cōtra p̄ᵐ ſic argꝭ.Si infinita pars ſit
frida:igiꝭ tātū tollet iª fridītas ſicut aliq̄ caliditas īfinita po
terit toti ꝯferre extēſa per ptē finitā:qꝛ in īfiᵐ plus ipedit
q̄ȝ aliq̄ caliditas finita pōt ꝯferre extenſa per ptē finitā.ḡ
ſi talis caliditas īfinita vel finita ſit extēſa per ptē finitā
totū ab iª caliditate nō poterit denoīari exn̄te fridītate ali/
quāta per totā ptē reſiduā.❡ Silr arguiꝭ ꝯtra 2ᵐ ꝯneȝ.
Si.n.aliq̄ ſint duo ꝯſilr diſpoſita:qua rōne vnū eſt calm:
eadē rōne ꝛ reliquū:qꝛ nulla pōt poni diuerſitas īter iª.et
ſi vnū ſit frigidū reliquū eſt frigidū.Si igiꝭ vnū ſit fridū
ꝛ reliquū ſit calidū:ſeqꝭ φ vtrūq; eſt calidū ꝛ frigidū.ꝯñs
eſt ipoſſibile:ḡ ꝛ añs. ❡ Itē cōtra 3ᵐ.Si.n.quelibet pars
terminata ad vnū extremū ſit infinite calida totū nō po/
terit q̄tis mō a frigiditate denoīari:qꝛ tātū tolleret iſta ca
liditas quātū pōt alia frigiditas denoīare.igiꝭ ꝯclo falſa.
p̄ª ꝯ de/ducitꝭ. ❡ Or tn̄ ille ꝯnes ſequantꝭ arguiꝭ ſic. Sit.a.tale cuiꝰ vna
medietas ſit ſūme calida ꝯtinue ꝛ alia remiſſe frigida.vȝ.
in gradu medio:ꝛ.b.vnū aliud cuius vna medietas ſit fri
gida in gradu medio:ꝛ alia calā in gradu remiſſiori:ima/
ginor tūc latitudinē caliditatis eē infinitā ꝛ rareſiant me/
dietates frigide in īfinitū illoꝝ.ſ.a.b.ꝛ intēdantꝭ medieta/
tes calide:ita φ.a.b.nec intēdantꝭ nec remittantꝭ: ſed ma/
neāt ꝯtinue eque itēſa ſicut nūc ſunt p̄ciſe φ ſatis eſt ima/
ginabile poſita latitudine caliditatis īfinita:eo φ tantū pōt
acqri de intēſione caliditatis per intēſionē caliditatis quā/
tū auferretꭍ per rarefactionē ptis frigide:tunc in fine erit
a.calidū ſicut nūc eſt:ꝛ tūc erit ſolū finita pars.ꝛ ſm ſe to/
ta calidā ꝛ totū reſiduū frigidū.ḡ ſequiꝭ ꝯcluſio p̄ª. ❡ Et
2ª 2ª ꝯcluſio ſequiꝭ in eodē caſu:qꝛ.a.tūc erit calidū ꝛ.b.fri/
gidū ſicut nūc eſt per caſum:ꝛ tūc erūt.a.b.ꝯſilr diſpoſi/
ta.naȝ equales ptes.a.b.tūc erūt ſm ſe totū calide:poſito
φ in p̄nᵒ fuerūt.a.b.equalia:ꝛ ille ptes tūc erūt eque intē/
ſe calide:qꝛ īfinite calide:ꝛ alie ptes.a.b.tūc erūt equales
ſub eodē gradu fridītatis:qꝛ iſte ptes erūt īfinite q̄ntitati/
ue:igiꝭ tūc.a.b.erūt ꝯſilr diſpoſita.igiꝭ ꝛc.Ex h̄ ſequiꝭ φ
nō q̄ðlibet infinitū eſt eque intēſum cū gradu in infinitū
ꝓcedēte.❡ Tertia ꝯcluſio arguiꝭ in eodē caſu.Nā queli/
3ª bet pars.b.terminata ad extremū eius finitū/erit infinite
calida in fine:qꝛ quelibȝ talis pars eſt finita finite hn̄s de
fridītate ꝛ infiᵐ de caliditate:ꝛ per p̄dicta caliditas infinita
per ptē cuiuſlibet finiti extēſaȝ deducto ꝯtrio infinite totū
denoīaret.cū igiꝭ īpedimētū ſit totū finitū īfinite denoia/
bit.vel ſic tūc eēt cuiuſlibet talis ptis exceſſus caliditatis ſu
pra fridītatē infinitꝰ:qꝛ caliditas infinita ꝛ fridītas ſoluȝ fi/
nita per ptē finitaȝ extēſam:igiꝭ tūc erit q̄libet talis pars
finite calida ꝛ totū tūc erit nō calidū:vt argutuȝ eſt:qꝛ tūc
Rñſio totū erit fridū:vt apparet in caſu.❡ Ideo forte dī ꝯcedē/
do ꝯnes de imaginatiōe:ꝛ cā eſt φ pars finita ſub gᵘ fini/
to tātū addit de itenᶜ reᵉ totiꝰ īfiniti in caſu ſic pars īfinita
ſub gradu finito ꝛ in caſu plus.ꝛ ideo ſm imaginationem

ꝯnes ſunt ꝯcedēde in caſu:tn̄ vbi pars iª finita eſt calida
gradu ſolū finito ꝛ reſiduū fridū totū tūc erit fridū illo gᵘ
ſub quo eſt pars illa infiᵗᵃ frida p̄ totū vel iª gradu ad quē
terminatꭍ in extremo īfinito ſi ſit diſſorme.❡ Cōtra iſtaȝ Cōtra
rñſionē arguiꝭ.ipoſſe eſt ponere caſum aliquē ex q̄ caliditas
in.a.tollit totā denoīatiōeȝ fridītatis:ꝛ caliditas.b.eſt p̄ciſe
tāta ſicꭍ caliditas in.a.ꝛ fridītas.b.eſt p̄ciſe tanta ſicꭍ fridītas
in.a.ḡn caliditas in.b.tollat totā denoīatiōeȝ eiꝰ fridītatis
in cōparatione ad totū.b.qualitercūq; gs dicat ſe poſſe h̄ ima
ginari:qꝛ iᵐ imaginatiōeȝ īpoſſe eſt ꝓbare.❡ Itē caliditas 2
in.a.nō ſufficit ſub aliq̄ gradu denoīare.a.deducta ſua fri
giditate:vt dictū eſt:vbi tāgiꝭ qualiter extēſa q̄litas per ptē
ſubiecti totuȝ illud ſubm̄ denoīat:qꝛ dato iº ſeqꝭ φ forēt duo
ꝯſilr diſpoſita:q̄rū vnū foret alio calidiꝰ vt ibi argutū eſt.
ꝯñs falſuȝ.ſeqꭍ igiꝭ φ iª caliditas.a.deducta ſua fridītate/
totū.a.nō ſufficeret denoīare:ꝛ hec fridītas aliq̄ ḡdu ſuffi
ceret denoīare iª deducta iª caliditate.igiꝭ hec caliditas per
nullā latitudinē ſufficit denoīatiōeȝ illiꝰ fridītatis īpedire.
ꝯñā iuxta illā eādē pōneȝ pȝ:qꝛ ponit φ denoīatio nixti
attēditꭍ penes acceſſum denoīatiōis illiꝰ q̄litatis:ſi p̄ ſe eēt
ad denoīatiōeȝ alteriꝰ p̄ ſe exn̄tis.tenet ḡ ꝯñā iuxta pōnē.
ꝛ añs eſt ꝓbatū.igiꝭ ꝯñs.❡ Cū igiꝭ hec fridītas gr̄a argᵗⁱ
vniformis totuȝ ſubm̄ denoīaret gradu ſuo ſi per ſe eſſet:
igiꝭ nō obſtāte iª caliditate infiᵗᵃ p̄ ptē illā finitā.a.extēſam
totū.a.erit frigidū.igiꝭ rñſio iª falſa ꝛ repugnās pōni iſti.
❡ Ideo aliter ꝛ ſecuriꝰ rñdetꭍ negādo duas p̄ᵃˢ ꝯnes:ꝛ cō 2ª rñſio
cedēdo 3ᵃᵐ:ꝛ ad caſum admittiꝭ totū vſq; ibi:cū poniꝭ φ
medietᵉˢ fride rareſiāt in infiᵐ:ꝛ medietates calide itēdā
tur:ſic φ ꝯtrᵉ maneat vtrūq; iſtoꝝ eque intenᵐ ſicꭍ nūc eſt. oppinio
ꝛ dī φ h̄ eſt poſſibile de oī inſtāti citra finē ſȝ nō pro fine:
qꝛ iſta infiᵗᵃ acq̄ſitio q̄ntitatis imediate ante finē ſubito to
tā denoīatiōeȝ iſtiꝰ calidi tollet:vt p̄dictū eſt.ꝛ ideo in ca/
ſu iſto ſeqꭍ φ in fine tā.a.q̄ȝ etiā.b.erit fridū iº gradu quo
pars īfinita erit frida:eo φ caliditas iª denoīationē frigidi
nō ſufficiet īpedire:ꝛ ſic admittiꝭ φ pro q̄cūq; inſtāti ante
finē erit.a.eque itenᵐ ſicꭍ nūc eſt:ꝛ dī φ imediate ante finē
totā denoīatiōeȝ eē calidi deꝑdet ꝛ acqret tātā denoīatio/
nē fridi per quātā iſta fridītas ſufficit denoīare illud totū
iª caliditate deducta.ꝛ admittiꝭ ſilr φ pro oī inſtāti citra fi/
nē erit.b.eque intenᵐ ſicꭍ nūc eſt:ꝛ imediate ante finē rōne
iſtiꝰ rarefactiōis ſubito intēdetꭍ a gradu quo nūc denoīatꭍ
vſq; ad gᵐ iſtiꝰ frigiᵗᵃᵗⁱˢ:ꝛ ita nec p̄ª nec 2ª ꝯclo ſeqꭍ que ſunt
5ª ꝛ 6ª ꝯtra hāc pōnem.❡ Sed 3ª iſtaꝝ eſt ꝯcedēda ſicut
argᵐ ſatis ꝓbat capto tali infinito:qꝛ totū eſt frigidū:vt dī
ctū eſt.ꝛ tn̄ quelibet pars terminata ad extremū finitum
eſt īfinite calida.ꝛ negatꭍ ꝯñā:q̄libet talis pars eſt infinite
calida.igiꝭ nulla fridītas poterit totū denoīare.ſȝ bn̄ ſeq/
retꭍ ſi totū eēt finitū. vn̄ ꝯnes iᵉ due ꝓxime nō ſunt oīno in
imaginabiles niſi ponēdo vnū infiᵐ alio īfinito maiuſ:ꝛ lȝ
h̄ ponatꭍ qð eſt irrōnabile non poterit aſſignari ratio pro
iª 6ª ꝯᶜ.❡ Aliqð eſt calm vniforᶜ p̄ totū qð p̄ ſolā rarefa/ 8ª ꝯclo
ctionē fiet nō calm vel īfinite remiſſe calm. ❡ Aliā ſunt 9ª ꝯclo
vniforᵉ ꝛ eque itenᵉ:q̄rū vnū per rarefactionē pōt remitti
ad nō gᵐ:ꝛ aliud nō pōt remitti ad aliquē gᵐ p̄ aliquā ra/
refactionē.❡ Cōtra p̄ᵃᵐ ſic argꝭ.Si totū ſit vniforᵉ calidū
q̄ntūcūq; rareſiat ſemp̄ manebit vniforᵉ calidū:qꝛ ad oēȝ
pūctū remanebit ꝯſilis qualitas ſicut eſt p̄habita.Item ſi
duo ſint vniformia nō eſt maior ratio q̄re vnū pōt remit/
ti p̄ rarefactionē magis q̄ȝ aliud.igiꝭ vtraq; ꝯclo eſt falſa.
❡ Pro p̄ª ꝯne argꝭ ſic.Sit.a.ſubm̄ finitū p̄ qð extēdatꭍ la
titudo fridītatis īfinita:corrñdeat tn̄ gradui ſolū finito:vt
ſic extēditꭍ.ꝛ ſit ad oēm pūctū gradus intēſior caliditatis q̄ȝ
fridītatis:ita φ ſit vniᵘˢ exceſſus caliditatis ſupra fridītateȝ
per.a.ita φ totū ſit vniforᵉ calidū ꝛ rareſiat extremo vbi
fridītas eſt remiſſior geſcēte in īfiᵐ:ita φ iſta fridītas cor/
rñdebit

corriſdebit gradui infinito rõne extenſionis facte per rarefa-
ctionẽ vt pbaꝛ eẽ poſſe vbi tangiꝛ de denoīationib⁹ ſim-
plicium corpoꝝ in ꝯᵉ zᵃ: nũc p iſtã rarefactiõez.a. vniᶠ calm
tem intẽſ ad nõ gᵐ: qꝛ hẽbit in fine fridıtatẽ infinitã p ptẽ
infinitã qua nulla caliditas poterit plus denoiare. g̃ ſequiꝛ
iſta ꝯclõ octaua. ¶ Pro nona capiaꝛ vnũ vniᶠ p totum 1ᵒ
gᵈ vniᶠ caliditatis cui corriſdet tota intenſio.a.mixti qd vniᶠ
ſit.b.⁊ ſeqꝛ q̄.a.b.ſunt vniformia ⁊ eque intẽſa: ⁊.a.põt re
mitti ad nõ gᵐ per rarefactiõez vt argutũ eſt: ⁊.b.non põt
aliqñ remitti p rarefactiõez: qꝛ ſua q̃litas eſt oio vniforᵐ.
igiꝛ p rarefactiõez remitti nõ poterit quouis mõ: ideo ſe-
quũtur ꝯnes q̃ de imaginatiõe ſunt ꝯcedẽde. ¶ Et ad arᵐ
in oppᵐ pme ꝯnis ꝯcediꝛ ad oẽm punctũ in.a.manere eã-
dez q̃litatẽ que nũc eſt ibi.⁊ negaꝛ ꝯña qñ ꝯcludiꝛ q̄ non
in infiᵐ remitteꝛ vel ſi meli⁹ ſic arᶠ. Ad oẽm punctũ mane-
bit ꝯtinue eadẽ caliditas ⁊ friditas que nunc ſunt ibi exquo
erit ſoluz rarefactio ſubti.igiꝛ ad oẽm punctũ ꝯtinue ma-
nebit idez vel eq̃lis exceſſus ſicut nũc eſt ad eũdẽ: ⁊ p ꝯñs
ſi nũc ſit vniᶠ cal'z ꝯtinue ita erit.negeꝛ ꝯña: qꝛ lz ad oẽm
punctũ erit eq̃lis exceſſus ſicut nũc eſt ad eũdẽ: ⁊ friditas
eq̃lis rõne tñ difformis rarefactiõis ifinito gradui tota fri
giditas cathe^ce corriſdebit: ⁊ ideo totũ tũc nõ erit calm: qꝛ
nulla caliditas põt plus denoiare q̃ꝫ iſta friditas tota tolleꝛ:
⁊ ideo nõ ꝓcedit argᵐ. ¶ Ad argᵐ ꝯ ꝯnez nonã qñ arᶠ ſic.
a.b.ſunt eque intẽſa.g̃ nõ eſt maior rõ ⁊c̃.negaꝛ ꝯña: quia
vni⁹ caliditas eſt tota difformis ⁊ ẽt tota friditas que per di-
uerſaz rarefactionẽ gradib⁹ diuerſis facile poterit corriſ-
dere ⁊ in alio eſt tota caliditas vniformis que ſi in infiᵐ ra-
reficeret nunq̃ꝫ põt gradui intenᶠ corriſdere nec remiſſiori
vt ſatis pꝫ: qꝛ ſemp in oib⁹ ptib⁹ foret eq̃lis caliditas ſic nũc
eſt in aliq̃ pte: que diuerſitas pro ſolõne ſufficiat argumti.
10ª ꝯ ¶ A.nũc eſt cal'z qd nec intẽdeꝛ nec remitteꝛ: ⁊ tñ in fine
11ª ꝯ erit nõ cal'z. ¶ Silr.a.nũc eſt ſoluz finite cal'z vel nõ cal'z
⁊ nũq̃ꝫ intẽdeꝛ nec remitteꝛ: ⁊ tñ in fine erit infinite calm.
¶ Cõtra pmã iſtaꝝ. Si.a.nũc ſit cal'z ⁊ nec intẽdeꝛ nec re
mitteꝛ: g̃ ꝯtinue erit eque intẽſuz ſicut nũc eſt: ⁊ p ꝯñs non
in fine erit nõ calm. ¶ Conſilr arᶠ ꝯ zᵃᵐ iſtaꝝ. Si enim.a.
nũc eſt ſoluz finite cal'z vel nõ calm: ⁊ ꝯtinue nec intendeꝛ
nec remitteꝛ: ſemp erit eque intẽſuz ſicut nũc eſt vel nõ ca
lidus: ⁊ p ꝯñs nõ in ifiᵐ intẽdeꝛ. ¶ Oꝛ tñ iſte ꝯnes ſequãꝛ
arᶠ ſic. Sit.a.viᵐ diuiſaz in ptes ꝓporˡᶜˢ: cui⁹ pᵃ ps ꝓpor-
tionalis ſit aliq̃lr calida: ⁊ zᵃ in duplo calioꝛ q̃ꝫ pᵃ: ⁊ 3ᵃ in
duplo fridioꝛ q̃ꝫ zᵃ cal'a.⁊ ſit 4ᵃ in duplo calioꝛ q̃ꝫ 3ᵃ eſt fri
gida.⁊ 5ᵃ in duplo calioꝛ q̃ꝫ 4ᵃ.⁊ ſexta in du° fridioꝛ q̃ꝫ eſt
gnta cal'a ⁊ ſic in ifiᵐ: ita q̄ ſemp ois ps ſicut eſt minoꝛ pᵃ:
ita ſit 1ᵃ intẽſioꝛ ⁊ ſint ſemp due ptes imeᵗᵉ calide icipiẽdo
a pᵃ ⁊ zᵃ ⁊ ſit 3ᵃ ps que.ſ. eſt imediata illis frida ſic.iij.vi.
ix.xij.xv.⁊ ſic in ifiᵐ. Oꝛ tũc.a.eſt cal'z argᶠ: qꝛ cõpoſitũ ex
pᵃ pte ꝓporˡⁱ ⁊ zᵃ ⁊ 3ᵃ eſt cal'z.nam 3ᵃ ps ꝓporˡⁱˢ eſt in du°
minoꝛ zᵃ ⁊ in duplo fridioꝛ.igiꝛ tãtũ tollet de denoiatione
q̃ntũ zᵃ ponit: ⁊ pᵃ ps ꝓporˡⁱˢ tantũ ponit de intẽſione ſicut
zᵃ: g̃ totũ cõpoſitũ ex pma pte ꝓporˡⁱ: ⁊ zᵃ ⁊ 3ᵃ eſt cal'.⁊ ſic
arᶠ q̄ cõpoſitũ ex 4ᵃ 5ᵃ ⁊ 6ᵃ eſt calm ⁊ ſic in ifiᵐ. g̃ totũ cõ
poſitũ ex oib⁹ hꝫ cõpoſitis eſt calm. Diuidaꝛ igiꝛ hora in
ptes ꝓporˡᶜˢ minorib⁹ terminatis v̈ſus finẽ. ⁊ ponaꝛ q̄ in
pma pte ꝓporˡⁱ huius hore remittaꝛ pma ps ꝓportiõalis
calida ⁊ pma ps ꝓporˡⁱˢ frida ad nõ gradũ: ⁊ in zᵃ pte ꝓ-
portionali hui⁹ hore remittaꝛ zᵃ ps calida ⁊ zᵃ ps frigida
ad nõ gᵐ ⁊ ſic in ifiᵐ: ita q̄ ſemp ad nõ gradũ remittatur
vna ps cal'a ⁊ vna aᵃ ps frigida que corriſdent in numeris
ptiũ calidaꝝ ⁊ fridaꝝ. Et ponaꝛ q̄ cũ aliqua ps fuerit re-
miſſa ad nõ graduz nõ inducaꝛ in illaz aliqua qualitas ſꝫ
maneat nõ qualificata: tunc totũ.a.nec intẽdeꝛ nec remit-
teꝛ: eo q̄ ſicut vna ps frigida eſt minoꝛ pte calida ſimul cũ
ea dependa ita eſt eadem intẽſioꝛ. g̃ equalr deperderet de
iuuamẽto ſicut de ipedimẽto: ⁊ per ꝯñs totũ nec intendeꝛ
nec remitteꝛ ⁊ in fine erit nõ calm: qꝛ tunc cuiuſlibet talis
ptis ꝓportionalis erit tota qualitas remiſſa ad nõ gradũ
nulla noua gnãta.igiꝛ ſeqꝛ ꝯclõ decima vera ⁊c̃. ¶ Item
vndecima ꝯclõ ſeqꝛ.naz in caſu poſito totũ.a.eſt ſolũ fini-
te cal'z vel nõ cal'z: qꝛ q̃uis tota caliditas.a. ſit infiᵗᵃ etiã ſua
friditas eſt infiᵗᵃ. g̃ totam denoiationez caliditatis ipediet
vel ſaltẽ faciet q̄ iſta caliditas ſolũ finite denoiabit hoc eſſe
cal'z.igiꝛ ponaꝛ q̄ in pᵃ pte ꝓportionali hore deperdaꝛ ve
pus et⁹ friditas que.ſ.extẽdiꝛ per pmã eius ptẽ ꝓportiona
lem frigidã: ⁊ in zᵃ pte ꝓporˡⁱ iſtius hore depdaꝛ zᵃ fridi-
tas ⁊ ſic in infiᵐ: ita q̄ oẽs ptes fride remittãtur ad nõ gra
dum: ⁊ q̃ñcũq̃ꝫ vna ps frida remittiꝛ remittaꝛ cũ ea pars
cal'a cũ imeᵗᵉ ꝓcedẽs ſtãtib⁹ ptib⁹ reſiduis non remiſſis.ſ.
iᵃ.iiij.vij.x.xiij.⁊ ſic in infiᵐ: ⁊ maneãt ptes ſic remiſſe per
imaginationẽ nõ q̃lificate in fine.⁊ ſeqꝛ ꝯclõ. Nam.a.nec
intẽdeꝛ nec remitteꝛ: qꝛ q̃ñcũq̃ꝫ ps aliqua frida remittiꝛ:
tũc remittiꝛ ps calida dupla ad eã quãtitatiue ⁊ ea in du°
remiſſioꝛ.igiꝛ tãtũ faciet remiſſio iſti⁹ caliditatis ad toti⁹ re-
miſſionẽ ſicut remiſſio friditatis ad totius intẽſionẽ. ꝯñtia
tenet iuxta põnez.⁊ añs poniꝛ.igiꝛ ſeqꝛ q̄ nec totũ inten-
deꝛ nec remitteꝛ ⁊ in fine.a.erit ifinite calidus: qꝛ tunc ha-
bebit infinitas ptes calidas equalr ad totius intenſionem
faciẽtes toto extrĩte finito: ⁊ nõ erit ibi aliqd ꝯriuz denoia-
tionez ipediẽs. g̃ totũ tunc erit ifinite calm. Minoꝛ poniꝛ
in caſu: ⁊ maioꝛ arguiꝛ: qꝛ tunc hẽbit infinitas ptes ꝓpor-
tionales calidas vt poniꝛ in caſu: ⁊ oẽs tunc equalr ad to-
tius denoiationẽ ꝯferũt: qꝛ ꝓportionabilr ſicut aliq̃ illarũ
eſt alia minoꝛ ita eſt ipſa intẽſioꝛ: ſeqꝛ g̃ ꝯclõ. ¶ Pro iſtis Rñſio.
diciꝛ ad iſtas ꝯnes negãdo ⁊ pmo ad decimã ꝯcedẽdo ca-
ſum: ⁊ negaꝛ q̄.a.eſt calidũ: qꝛ ptes.a.hñt friditatẽ ifinitã
ſufficientes totũ denoiare: qꝛ pma illaꝝ aliq̃lr hꝫ de frigi-
ditate ⁊ ſcda tãtũ ⁊ ſic deinceps: eo q̄ ꝓportiõalr ſicut ali-
qua illaꝝ per ſubm minus extẽdeꝛ: ita eſt 1ᵃ intẽſioꝛ. ideo
quãtũcũq̃ꝫ multũ de caliditate extẽdaꝛ per illud corp⁹ ma-
nente frigiditate iᵃ caliditas totũ nõ ſufficiet denominare
calidũ: eo q̄ vnũ infinitũ alio ifinito nõ eſt maius. Et ſic
ſoluiꝛ argumẽtuz cõtra decimã cõcluſionẽ negãdo pmaz
particulam.⁊ negaꝛ ꝯñtia hec.cõpoſitũ ex pma pte ꝓpor-
tionali ſcda ⁊ tertia eſt calidum: ⁊ cõpoſitũ ex.iiij.v.vi.eſt
calidũ ⁊ ſic in infinitũ: ergo totũ eſt calidũ: qꝛ lꝫ cuiuſlibꝫ
talis cõpoſiti ſit caliditas magis denominãs q̃ꝫ friditas: qꝛ
tamẽ tota friditas totius cathe^ce eſt infinite denoiatiua nõ
ꝓcedit arguᵐ: qꝛ caliditas nõ plus denoiare põt vt prius ⁊c̃.
¶ Sed tunc videꝛ vndecima cõcluſio ſequi. diciꝛ q̄ nõ:
⁊ concediꝛ pma pars ⁊ etiã vltima: ⁊ negaꝛ media pars.ſ.
q̄ totũ nec intendeꝛ nec remitteꝛ.imo diciꝛ q̄ ſic: qꝛ tota
frigiditas cõtinue ante finẽ erit infinita infinitũ ſufficiens
denoiare ſubiectum deducto ſuo cõtrario: ideo pro nullo
inſtanti ante finem intendeꝛ nec remitteꝛ.ſed quia ſubito
imediate ante finez deperdeꝛ frigiditas infinita que toti⁹
caliditatis denominationẽ ſufficiat impedire: ⁊ qꝛ in fine
remanebit caliditas infinita: ideo imediate ante finez ſu-
bito erit acqſitio intenſionis eſſe calidi in cõparatione ad
totũ: ⁊ ſic imediate ante finez intendeꝛ: ⁊ ſic vna pars ꝯclu-
ſionis eſt falſa: ⁊ ideo cõcluſio eſt negãda. ¶ Cõtra qd ſic
arguiꝛ. Si quelꝫ illaꝝ frigiditatũ nũc inciperet remitti: ⁊
p totã horã remitteret vniforᶠ: ⁊ ita ẽt eſſet de illis calidi-
tatib⁹ remiſſis totã nullaz intenſionẽ nũc in pnᵗ inciperet
acqrere.cũ igiꝛ cõtinue erit vniformis remiſſio frigidita-
tis ⁊c̃.ſequiꝛ q̄ in nulla pte terminata ad finẽ hore aliquã
latitudinẽ ſubito acqreret. Negaꝛ ꝯñtia: qꝛ lꝫ quelꝫ illarũ
frigiditatũ cõtinue remittaꝛ vniforᶠ: pro nullo tñ inſtanti
remitteꝛ tota illa frigiditas cathe^ce: qꝛ ante finẽ ſemp ma-
nebit infinita: ſed imediate ante finẽ erit depditio eius ad
nõ gradum: ⁊ ideo nõ ꝓcedit argᵐ. ¶ Alicui⁹ eſt quelꝫ ps 12ª ꝯ
ꝓportionalis infinite calida: ⁊ tñ totum non eſt calidum.

gradu ꝫ eiuſde ꝫ infinitū eſt latitudo infinita vt argutū eſt
de latitudine remiſſionis. ergo latitudo raritatis nō ſe hꝫ
priuatiue. Maior arguit̃ ſic. Capiat̃ aliqđ rarū qđ rareſiat
in infiᵐ: tūc vel eſt eiꝰ raritas tāta ſicut quātitas vel maior
vel minor. Si ꝑciſe tāta ⁊ ita ꝓportionabil'r augmētabit̃
raritas cū ꝗtitate: eo ꝙ ſicut erit rariꝰ ita ꝓportionabil'r
erit maius. ⁊ ſi ſic ꝯtiᵉ eque ueloᶜ augmētabunt̃. nā ꝯtiᵉ erūt
eq̄les: ⁊ ſi ſic ꝯtinue tātū addet̃ raritati ſicut quātitati: ſed
quātitati addet̃ latitudo ꝗtitatis infiᵗᵃ. g̊ ⁊ raritati addet̃
latitudo infiᵗᵃ. ſed nulla niſi iᵃ que eſt īter illū gᵐ ⁊ gradū
infiᵐ raritatis. g̊ iᵃ latitudo eſt infiᵗᵃ. Si g̊ dicat̃ ꝙ raritas
ſit maior q̄ꝫ quātitas ⁊ eque ꝓportiōabil'r augmētabunt̃.
g̊ in qua ꝓportiōe erit raritas maior q̄ꝫ quātitatis in eadē
ꝓportiōe velociꝰ maiorabit̃ ⁊ ſibi plus addet̃. cum ergo
quātitati addet̃ infiᵗᵃ quātitas. g̊ ⁊ raritati addet̃ latitudo
infiᵗᵃ. Si g̊ dī ꝙ raritas ſit minor ꝗtitate ⁊ ꝓportiōabil'r
augmētabit̃. g̊ in ea ꝓportione in qua erit minor, in ea ꝓ-
portiōe minꝰ acq̄ret: ſed ꝗtitas acq̄ret infinitū. g̊ ⁊ raritas
acq̄rit infinitā latitudinē raritatis: ⁊ per ꝯñs inter oēm gᵐ
raritatis ⁊ gᵐ infiᵐ eſt latiᵈᵒ infiᵗᵃ: qđ nō eſt verū de aliq̄
latitudine priuatiua. ¶ Pro iᵃ etiā pōne ſūt argᵗᵃ q̄ erūt fcā
3 pōnez ꝫ pōnē ponētē ꝙ dēſitas ſe hꝫ poſitiue. ¶ Cōtra iſtā pōnē
arᵍ ſic. Ex iᵃ ſeq̄t̃ ꝙ in oī raro eſt īfiᵗᵃ dēſitas. nā in oī raro
eſt aliq̄ raritas ⁊ ſubduᵃ ⁊ ſubq̄drupla ⁊ ſic in īfiᵐ: ſic in oī
intēſio eſt aliq̄ intēſio ⁊ ſubduᵃ ⁊ ſubq̄drupla ⁊ ſic in infiᵐ:
⁊ per ꝯñs in oī raro eſt aliq̄ denſitas ⁊ dupla ⁊ q̄drupla ⁊
ſic in īfiᵐ. ſicut. n. raritas eſt minor, ſic dēſitas eſt maior: q̄r
nō eſt aliud eē duplā denſitatē q̄ꝫ ſubduplā raritatē ſicut
dupla remiſſio eſt ſubduᵃ intenſio. g̊ ſicut ſeq̄t̃ hic eſt aliq̄
intēſio ⁊ ſubdupla ⁊ ſubq̄drupla ⁊ ſic in infiᵐ: g̊ hic eſt re-
miſſio dupla q̄drupla ⁊ ſic in īfiᵐ. per idē ſeq̄t̃, in iſto raro
eſt aliq̄ raritas ⁊ ſubdupla ⁊ ſubq̄drupla ⁊ ſic in infiᵐ. g̊ in
Conf. 1ᵃ iſto eſt aliq̄ dēſitas dupla q̄drupla ⁊ ſic in īfiᵐ. ¶ Itē in
oī magno eſt infiᵗᵃ paruitas: q̄r aliq̄ magnitudo ſubdupla
ſubq̄drupla ⁊ ſic in infinitū. g̊ per idē in oī raro eſt infiᵗᵃ
dēſitas: q̄r raritas reᵘ denſitatis ſe hꝫ ſicut magnitudo reᵘ
paruitatis: ⁊ ſic de oī latitudine poſitiue vel priuatiue ꝯſide-
rata: vel que ſe hꝫ reᵘ alteriꝰ poſitiue ꝙ id includit in ſe in-
finitū gᵐ ſui ꝯ̄rij priuatiui. ꝯñs ad qđ deducit̃ eſt falſum: q̄r
dēſitas eſt magna ex hoc ꝙ certa eſt mā̃ in modica quāti-
tate: ⁊ ſicut certa eſt mā̃ in ꝗtitate minori: ita eſt denſitas
maior. ſi g̊ dēſitas foret īfinita certa mā̃ in oī tali raro ſub
infiᵐ modica ꝗtitate exiſteret. ꝯñs falſū: q̄r aliqđ pōt eē
2ᵃ pnᵉ rarū vniformiter. ¶ Scđo ꝫ illā pōnez arguit̃ ſic. Ex illa
ſequit̃ ꝙ oē rarū eſt īfinite rarū. nā in oī raro eſt infinita
raritas ⁊ ſolū finita dēſitas: qđ arguit̃. Capiat̃ aliqđ rarū
pedale grā exēpli: tūc ꝯtingit dare ꝑtē mā̃e in duplo mi-
norē q̄ꝫ eſt tota mā̃ totiꝰ ꝗtitatis eq̄lis cū tota. ſi eniꝫ per
abſtractionē mā̃e ad oēꝫ pūctū foret raritas dupla: ita ꝙ
medietas mā̃e eſſet abſtracta: tota mā̃ remanens foret in
duplo rarior q̄ꝫ nūc eſt tota mā̃: ⁊ nunc eſt tota remanens
eq̄lis quātitatis ſicut tūc eēt. g̊ nūc eſt iſta mā̃ in duplo ra-
rior q̄ꝫ tota mā̃: q̄r eſt eq̄lis quātitatis cū tota mā̃. per idē
arguit̃ ꝙ in illo eſt mā̃ ſubquadrupla ad totā māꝫ eq̄lis
quātitatis cū tota ⁊ ſic deinceps. g̊ tota mā̃ eſt aliq̄l'r rara
medietas mā̃e eq̄lis ꝗtitatis cū toto in duplo rarior: ⁊ 4ᵃ
ꝑs mā̃e eq̄lis ꝗtitatis cū tota in q̄druplo rarior ⁊ ſic de-
inceps: g̊ in ſe ꝯtinet īfinitā raritatē. ſi g̊ raritas poſitiue ſe
hꝫ ſicut intēſio vel magnitudo: ſeq̄t̃ ꝙ tale rarū eſt īfinite
3ᵒ rarū ſicut hñs magnitudinē infinitā eſt infiᵐ. ¶ Itē ſeq̄t̃
ꝙ ſi aliqđ rareſiet ſubito fieret infinite rarū. nam ad oēꝫ
punctū eſt īfinite velox rarefactio. qđ arguit̃ ⁊ ꝓbat̃ p̄mo
ꝙ ſi eq̄lia quātitatiue inæq̄l'r rara rareſierent: ita ꝙ ſemꝑ
manerēt eq̄lia ſicut vnū eſt alio rarius ita velocius rare-
ſiet: vt ſi ſint duo pedalia: quorū vnū ſit rarū vt quattuor
⁊ aliud vt duo: tunc ſi manebūt ꝯtinue equalis quātitatis:
ſequit̃ ꝙ eque ꝓportionabil'r rareſient. g̊ nūc cū vnū ſit
in duplo rarius: ſeq̄t̃ ꝙ cōtinue erit in duplo rarius: ⁊ per
ꝯñs ꝯtinue in duplo velociꝰ acq̄ret de raritate. ſi eniꝫ vnū
ſit duplū ⁊ ſemꝑ manet duplū reᵘ alterius ⁊ vtrūq̄ ꝯtiᵉ
maiorabit̃, ſeq̄t̃ ꝙ duplū in duplo velociꝰ acq̄ret de quā-
titate: vt id qđ nūc eſt rarū vt duo cū fuerit vt q̄tuor: tunc
illud qđ eſt rarū vt q̄tuor ſi ſemꝑ maneat duplum: opꝫ ꝙ
tūc fieret vt. viij. ⁊ ſic acq̄ret. iiij. cū reliquū acquiret. ij. qđ
gnāl'r eſt verū de oībꝰ poſitiuis poſitiue cōſideratis. Et ex
hoc arguit̃ vt priꝰ argutū eſt. cōtingit accipe māꝫ ſubdu-
plā eq̄lis ꝗtitatis cū tota mā̃: ⁊ ſeparet̃. g̊ in duplo velo-
cius illa rareſiet q̄ꝫ tota mā̃: ⁊ ſic in infiᵐ. cū g̊ ad oēm pun-
ctū illiꝰ rari ſit aliq̄s punctꝰ cuiuſlꝫ talis ꝑtis mā̃e: ſequit̃
ꝙ ad oēm punctū huiꝰ eſt īfiᵗᵉ velox rarefactio: qđ fuit ꝓ-
bandū. ¶ Itē arguit̃ ex ꝯñte. ad oēm punctū erit cōtinue
infiᵗᵉ velox rarefactio ⁊ nulla ꝯdenſatio. g̊ totū ſubito fiet
infinite rarū: ſicut ſi ad oēꝫ punctū alicꝰ intēſi infiᵗᵉ velox
cōtinue eēt intēſio ſubito fieret infinite intenſū, nulla ad
eadeꝫ puncta fcā remiſſione. g̊ ſequit̃ ꝙ ſi aliqđ rareſieret
ſubito fieret infiᵗᵉ rarū. ⁊ ſi ſic, ſeq̄t̃ ꝯcl'o priꝰ reducta ꝙ oē
rarū eſt īfinite rarū: q̄r ſi nō, ſit illud. a. ⁊ ſit. b. rariꝰ. a. quo
poſito rareſiat. a. ad raritatē. b. ⁊ ſeq̄t̃ ꝙ ſubito fiet īfinite
rarū per ꝯ̄gnta ⁊ nō ſubito fiet rariꝰ. b. vel ſeq̄t̃ ꝙ nihil
per tp̄s poterit rareſieri. g̊ ſeq̄t̃ ꝙ. b. erit īfinite rarū: ⁊. b.
eſt ſolū finite rarius. a. q̄r vtrūq̄ eſt ꝗtitatis finite. g̊ ſeq̄t̃
ꝯcl'o: que tñ eſt īpoſſi'is. ¶ Quarto ꝫ iſtā pōnez ſic argᵘ. Ex 4ᵃ
illa ſeq̄t̃ ꝙ aliqđ eſt rarū finitū difforme ⁊ finite rarū cer-
to gradui finito vniformi correſpōdēs: qđ tñ ſi ad vniformi-
tatē gradus alicꝰ raritatis quātūcunq̄ꝫ remiſſiᵘ duceretur
fieret infiᵗᵉ dēſū ſi quātitas finita maneat: qđ tñ nō eſt cō-
ſonū rōni ſi deſcriptio rari ſit bñ data. ſeq̄t̃ eniꝫ ꝙ ſi fieret
vniforᵉ aliq̄ gradu raritatis foret rarū: ⁊ per ꝯñs nō fieret
infinite dēſū: qđ tñ in vna ꝑticula ꝯ̄tis reducte ponitur.
¶ Qz aūt iſta ꝯcl'o ſequat̃ ſtatiꝫ argᵘ ſic. Et capiat̃ aliqđ
vniforᵉ difforme rarū ad nō gradū raritatis terminatū ſit
grā exēpli: pedale ſit id. a. tūc. a. eſt finite rarum: eo ꝙ vni-
formiter difforme rarum ⁊ ē finite quātitatis vt conſtat.
arguit̃ iam alia ꝑs ꝙ. ſ. ſi ad vniformitatē reduceret̃: ma-
nens quātitatis finite, fieret īfinite denſum. ſi. n. foret mā̃
aliq̄ alicuiꝰ ꝗtitatis finite vniforᵉ rara, illa foret aliqual'r
rara: ⁊ ſi mā̃ dupla foret eiuſdē quātitatis: illa foret in du-
plo denſior: ⁊ ſic deinceps. Cū g̊ mā̃. a. ſit infiᵗᵃ ſeq̄t̃ ꝙ ſi foret
quātitatis finite vniforᵉ rara vel denſa ꝙ illa īfinite den-
ſitatis ꝯſiſteret. Et ꝙ mā̃. a. ſit infiᵗᵃ ſtatiꝫ ſic arguit̃. Diui-
datur. a. in ꝑtes ꝓportionales verſus nō gradū: tūc prima
pars ꝓportionalis eſt in duplo rarior 2ᵃ vt ꝑꝫ: ⁊ in duplo
maioris quātitatis. ergo tanta preciſe eſt mā̃ prime partis
ꝓportionalis ſicut ſecūde. Et ſic per idē arguit̃ māꝫ ſcđe
ꝑtis eſſe equalē materie tertie ꝑtis ⁊ ſic in infinitū. ergo
infinitā materiā cōtinet. a. qđ fuit ꝓbādum: ex quo ſequit̃
cōcluſio iᵃ falſa reducta. ergo poſitio falſa. ¶ Itē ſequit̃
ꝙ nulli gradui in raritate correſpōdet: q̄r ſi ſic ſit gradus
ille. b. cōtra reducat̃ tunc ad vniformitatē illius gradus: ⁊
ſequit̃ ꝙ tunc erit infinite quātitatis: q̄r aliter ſequeret̃ ꝙ
aliqua mā̃ cū tanta raritate eſſet alicuiꝰ quātitatis dupla
mā̃ cū equali raritate eſſet in duplo minoris quātitatis ⁊
ſic in infinitū. cū ergo mā̃. a. ſit infinita per ꝯ̄gnta: ſeq̄t̃
ꝙ ſi foret vniformiter rarū infinite foret quātitatis: quia
ſicut mā̃ eſt infinita: ita opꝫ reducere quātitatē ad infini-
tum: ⁊ per ꝯñs ſi ad vniformitatē reducat̃ quātitas in īfi-
nitum eſſet maior q̄ꝫ nunc eſt ⁊ mā̃ equalis: ergo raritas
eſſet maior q̄ꝫ nūc eſt. ꝯñtia tenet: eo ꝙ rarū eſt cuius par-
tes remote iacent: ſicut ergo partes remotius iacent in mā̃
equali: ita raritas eſt maior. Ex his ſequitur ꝙ raritas. a.

b.gradui nō correſpōdet:q2 ſi ſic ad.b. gradus vnifor' poteſt
5° reduci.¶ Quinto ad ideꝫ ꝯ iſtā pōneꝫ arguit ſic.qð argu
būi notet.Ex iſta ſeqꝛ iſta ꝯcl'o reducta ꝯ pmā pōneꝫ.ſ.ꝙ
aliqð finitū finite rarū eſt ifinite magne po',nullam aliaꝫ
bn's ꝗtitatē infinitā.arguit illā ꝯneꝫ ſeq ad eandē ſicut ex
ꝑma pōne ſequi eſt arguitū:ꝛ idem caſus in vtraqꝫ ponit.
¶ In opp^m hui' arguit .ſicut.n.raritas eſt minor cū aliis
diſpōnib' eq̄lib',ita po' eſt maior.Si ḡ raritas ſit ſolū fi
nita ꝛ ēt oēs alie diſpōnes ſolū finite:ſeqꝛ et' po^a ſoluꝫ eē
finitā:ꝛ ſic ſeqꝛ iſtā pōneꝫ eē falſam ponētez ꝙ raritas ſe
bēat poſitiue re^u dēſitatis.¶ Cōtra iſtā pōneꝫ arg' ēt per
ꝯneꝫ tertiā reductā cōtra poſitionē ꝓximā cuꝫ eodē caſu
ꝛ argumentis pro ꝛ cōtra.

2° pō. **Reſtat tertiā** pōneꝫ reducere ponētez ꝙ dēſitas
ſe hꝫ poſitiue ꝛ ꝙ ex vniformi rare
factiōe alic' ꝑ tp̄s ſm ſe totū acqrit ꝗtitas vni' ꝗtitaꝫ ad
tp̄s ꝛc̄.Pro p^a pte ſunt oīa ar^a ꝗ ſūt ꝯ opionē ꝓcedentem.
Pro 2^a vo pte ſic ar'.Sit.a.vnū raꝝ vni' rarefactū : tūc ſi
raritas.a.ꝛ ſua ꝗtitas in g^u correſpōdeāt ꝛ eq̄ ꝓpor' maiorat
raritas cū ꝗtitate iuxta pargūta. ḡ raritas.a. ꝛ ꝗtitas ꝯti'
erūt eq̄les:eo ꝙ ad raritatē nūc habitā ꝯti' eq̄leꝫ hēbit ꝓ
portionē:ꝛ per ꝯn's equeue' maiorabit raritas cū ꝗtitate:
q2 alr ꝯti' nō manerent eq̄les.ꝛ ſi raritas cū vni' acqrit:ḡ
etiā vni' ꝗtitas. Si vo ꝗtitas ſit minor ꝙ̄ raritas ꝛ eque
ꝓportiōabilr maiorabunt.ḡ ſicut ꝗtitas raritate eſt mi
nor:ita mīn' acqret ꝗtitas ꝙ̄ raritas:ſicut ſi ꝗtitas ſit ma
ior raritate ꝛ ēt eque ꝓpor' maiorabunt ꝗtitas ꝛ ipſa ra
ritas:ſeqꝛ ꝙ ſic maior eſt ꝗtitas ꝙ̄ raritas:ita veloci' ma
iorabit ꝗtitas ꝙ̄ raritas.cū ḡ raritas vni' maiorabit ſm
tp̄s:ſeqꝛ ēt ꝗtitatē ei' vni' ſm tp̄s ei' maiorari.Et nō hāc
eē maximā euidētiam pro pte iſta.¶ Pro 2^a pte 2^e ptis
iſti' pōnis ſic ar'.Sint.a.ꝛ.b.rara ineq̄lr.a.min' raruꝫ.b.
magis rarū.ſit.a.gr̄a arg^u vt duo.ſi ḡ.b.ſit in du' rarius ꝙ̄
a.ſeqꝛ ꝙ.b.erit raꝝ vt ꝗtuor: rarefiāt ḡ iſta duo.ſ.a.ꝛ.b.
equeue'.ꝛ ſeqꝛ ꝙ cū.a.fuerit vt ꝗtuor.b.erit vt ſex. ꝛ ſi ſic
cū.a.fuerit in dp^o rari' ꝙ̄ nūc eſt:erit.b.in ſexqalteꝛo rari'
ꝙ̄ nūc eſt.ꝛ ꝓpor' ſicut.a.ꝛ.b.erūt rariora:ita ēt erūt maio
ra.ḡ cū.a.fuerit in du^o maius ꝙ̄ nūc eſt erit.b. in ſexqalte
ro mai' ꝙ̄ nūc eſt.ꝛ in ꝑn^o ſunt.a.ꝛ.b.eq̄lia.ḡ maiorē ꝗti^tem
acqret.a.ꝙ̄.b.ꝛ.a.eſt denſi' ꝙ̄.b.ḡ denſius cū rarefactione
eq̄li maiorē acqret ꝗti^tem ꝙ̄ rari':ꝛ ſic ſeqꝛ pōneꝫ illaꝫ pro
3 pōnes oī pte eē ꝓbatā. ¶ Contra illā pōneꝫ ar' ſic. ꝛ ꝑ ar' ꝑmā
pte 2^e formalr repugnare ſic. Sit.a.min' rarū ꝛ.b.magis
rarū:ꝛ rarefiāt eque' in ifi^m vel ad nō g^m dēſitatis qð ideꝫ
eſt. quo poſito ſeqꝛ ꝙ.b.citi' deueniet ad nō g^m dēſitatis
ꝙ̄.a.q2 ſi itēſi' ꝛ remiſſi' eq̄ue' remittant:citi' deueniet re
miſſius ad nō g^m itēſionis ꝙ̄ itēſi'.cū ḡ dēſitas poſitiue
ſe hēat ſicut itēſio ꝛ raritas ꝑuatiue ſic remiſſio:ſeqꝛ ꝙ ſi
rari' eq̄ue' rarefiat cū dēſiori,citi' deueniet rari' ad nō g^m
denſitatis ꝙ̄ dēſi'. ꝛ ꝗcito ꝑciſe erit.a.ſub nō g^o dēſitatis
vel ipm.b.tācito erit infi^te ꝗti^tis: ḡ citi' erit.b. infi^te ꝗti^tis
ꝙ̄.a.q2.b.erit ſub ꝗti^te ifi^ta qñ.a.erit ſub ꝗti^te finita:ꝛ.b.eſt
rari' ꝙ̄.a.ꝛ eq̄lis ꝗti^tis cū eo:ḡ rari' maiorē ꝗti^tem acqret
2° ꝙ̄ dēſi' ſibi eq̄le cū rarefactiōe eq̄li.¶ Scdo ad ideꝫ ar
guit ſic.cū ꝯdēſatiōe eq̄li rari' nō minorē ꝗti^tē deperdet
ꝙ̄ dēſius.ḡ ecōuerſo ꝑ rarefactionē eq̄leꝫ rari' nō miorē
ꝗtitatē acqret ꝙ̄ dēſi'. Intelligant ſemꝑ 1° eē eq̄lis ꝗtita
tis.Sint vt ꝑus.a.ꝛ.b.eq̄lis ꝗti^tis.a.dēſi' ꝛ.b. rari' cōden
ſent equeuelociter in ifi^m.quo poſito ſi forēt duo eq̄lr re
miſſa ſiue ineq̄lr que ꝯti' velociter itēderent:equecito ad
itēſionē ifinitā deuenirēt. ḡ per ideꝫ ſi dēſitas ſe hꝫ poſi
tiue ſicut itēſio:ſeqꝛ ꝙ dēſius equecito deueniet preciſe
ad g^m infi^m dēſitatis ſicut rari':ꝛ cū deuenerit ad gradum
dēſitatis infinitū,erit vtrūqꝫ nō ꝗti^ū.cū igit.a.ꝛ.b.nūc ſint
eq̄les in quātitate ꝛ equeuelociter ꝯdēſabunt in infinitū:

ſeqꝛ ꝙ.a.equecito deueniet ad nō g^m ꝗtitatis ꝑciſe ſicut.b.
cū ꝯdenſatiōe equali:ꝛ.a.eſt denſius.b.ḡ denſius cū ꝯden
ſatione equali nō deꝑdet maiorē quātitateꝫ ꝙ̄ rarius. ḡ ſi
equeuelociter rarefiat denſius ꝛ rari' eq̄lis quātitatis,non
maiorē quātitatē acqret dēſius ꝙ̄ rari'. ¶ Tertio ad idē 3°
arguit ſic.Sint.a.ꝛ.b.equalis quātitatis.a.denſius ꝛ.b.ra
rius vt ꝑus:ꝛ ſit vtrūqꝫ eque remiſſuꝫ ſicut raruꝫ:ꝛ remit
tat vtrūqꝫ equeuelociter ad nō gradum : non tñ equecito
rarefiant ita ꝙ ſemꝑ maneāt eque remiſſa ſicut rara.quo
poſito.a.eſt min' rarū ꝙ̄.b.ꝛ vtrūqꝫ eſt ita remiſſuꝫ ſicut
rarū per caſum.ḡ.a.eſt minus remiſſuꝫ ꝙ̄.b. ꝛ per ꝯn's.b.
eſt remiſſius.a.ꝛ equeuelociter cōtinue preciſe remittent.
ergo citi' deueniet.b.ad nō graduꝫ itēſionis ꝙ̄.a.ꝯn̄a pꝫ
per hoc ꝙ.b.min' diſtat a nō gradu ꝙ̄.a.remittat:ḡ.b.ad
nō graduꝫ in hora:tūc ex quo.b.ꝯtinue erit eque remiſſuꝫ
ſicut rarū: ſeqꝛ ꝙ ifinite rarū erit.b.in iſta hora ꝛ.a.ſolum
finite rarū:eo ꝙ ꝯtinue.a.erit ſoluꝫ finite remiſſuꝫ. ḡ ſeqꝛ
ꝙ in infinitū rarius erit.b.ꝙ̄.a.in iſta hora : ꝛ nūc ſunt eq̄
lis quātitatis.ergo in infinitū maioris quātitatis erit.b.ꝙ̄
a.in iſta hora:ꝛ per ꝯn's infinitā maioreꝫ quātitatē acqret
b.ꝙ̄.a.ꝛ.b.eſt rari'.a.ꝛ iſta ꝯtinue equeuelociter rarefiēt.
ergo poſitio falſa. Q2 ꝯtinue eq̄uelociter rarefient pꝫ:q2
vtrūqꝫ cōtinue erit eque rarū ſicut remiſſuꝫ. ḡ equeuelo
citer vtrūqꝫ cōtinue rarefiet ſicut ipſuꝫ remittet. cū ergo
iſta duo ꝯtinue equeuelociter remittent :ſequit ꝙ equeue
lociter rarefient:ꝛ ſunt eq̄lis quātitatis.b.rarius ꝙ̄.a.ergo
b.maiorē ꝗtitatē acquiret ꝙ̄.a.ḡ poſitio falſa.¶ Quarto 4°
arguit ſic. Iſta ponit ꝙ ex vniformi rarefactiōe alicuius
ſm ſe totū vniformiter acqrit quātitas: ergo ecōuerſo ex
vniformi cōdenſatione vniformiꝰ ſeqꝛ deꝑditio quātita
tis.ꝯn̄a tenet per hoc ꝙ vniformiter acqrere raritateꝫ nō
eſt aliud ꝙ̄ vniformiter deꝑdere denſitateꝫ. Si ḡ ex vni
formi rarefactione ſequit vniformis acqſitio quātitatis.
ergo ex vniformi deꝑditione denſitatis,ſequit vniformis
acqſitio quātitatis:ꝛ per ꝯn's ecōuerſo ex vniformi acqſi
tione denſitatis ſequit vniformis deꝑditio quātitatis,ꝛ ex
difformi difformis. Pono ergo ꝙ.a.cōdenſet ad nō ꝗtitatē
ita ꝙ quātitas vniformiter deperdat ad nō graduꝫ quā
titatis:tunc iuxta argūta denſitas vniformiter acqrit.po
natur ergo ꝙ hoc fiat in hora:cū ergo totū deꝑdet ad non
graduꝫ per huius cōdenſationē ꝛ ꝓportionabilr ſicut erit
minoris quātitatis ita erit denſius.ergo ifinite denſuꝫ hoc
erit ꝛ denſitas vniformiter acqrit: ergo a gradu ſub quo
nūc eſt denſitas ad graduꝫ infinitū denſitatis eſt latitudo
tantūmodo finita.ꝯn̄a pꝫ per hoc ꝙ latitudo infinita nō
pōt vniformiter acqri in hora:ſed nullius poſitiue latitu
dinis eſt ab aliquo gradu vſqꝫ ad aliquē graduꝫ ifi^m ſolū
latitudo finita.ḡ latitudo dēſitatꝭ ſe nō hꝫ poſitiue.ꝛ ſi ſic,
ſequit vnā partē illius pōnis alteri repugnare.

Et ideo ponit pō 4^a ꝛ vlt^a ponēs ꝙ denſitas ſe 4° pō ꝛ
habet poſitiue ꝛ ex vniformi ra ꝓpria.
refactiōe alicuius per temp' ſm ſe totū difformiter acqui
ritur quātitas:ꝛ ſi denſius ꝛ rari' eq̄lis ꝗtitatis equeuelo
citer rarefierēt:rari' maiorē quātitatē acqreret ꝙ̄ dēſius.
Pro ꝑma pte hui' pōnis ſunt argumēta que ꝯ ſcdaꝫ poſi
tionē ſunt adducta. Pro ſcda pte illius pōnis ſūt oīa argu
menta que cōtra pōneꝫ imediate ꝓcedentē ſunt adducta.
¶ Itē pro iſta ſic arguit. Si raritas ſe hꝫ ꝑuatiue ſicut
remiſſio:ſequit ꝙ inter oēm graduꝫ raritatis ꝛ ſuū duplū
eſt in duplo minor latitudo ꝙ̄ inter ipſuꝫ ꝛ gradum ſub
dupluꝫ raritatis:ſicut ſatis argutū eſt vbi tractatum eſt de
itēſione ꝛ remiſſione. Si ḡ rari' ꝛ denſi' equeuelocit ra
refiāt:ſeqꝛ ꝙ rari' citi' deueniet ad graduꝫ dupluꝫ rarita
tis ꝙ̄ denſius : ꝛ ſicut foret rari' ſic maioris quātitatis fo
ret. ergo citius foret rarius duple quātitatis ꝙ̄ denſius.

tinue equeue⁹ remittent vt ponit in caſu. igit pȝ cõcluſio preter vltimã pticulaȝ que ſic arguit: qꝛ due ſūt poſitiões in de difformib⁹.ſ.ꝙ vel qualitas corrñdet gradui medio vel eſt eque intenſa ſicut aliqua pars eiuſdē.ſi gradui medio:tunc ex quo velocius intendit caliditas in vna medietate ꝙ̃ remittet in alia:ſequit ꝙ gradus medius inter caliditatē vnius medietatis ⁊ caliditatē alteri⁹ medietatis cõtinue erit intenſior ⁊ intēſior: ⁊ ſi ſic caliditas cõtinue intendet.Conſimilr arguit de ſiccitate ꝙ i^a ꝯtinue intēdat: tunc ſi caliditas cõtinue intendit ⁊ etiaȝ ſiccitas:ſequit ꝙ illud elementū intendet.ergo ponēdo qualitatē difformē cuius vtraqȝ medietas eſt vniformis correſpondere gradui medio:ſequit totū cõtinue intendi.ſi etiaȝ ponat qualitatem eſſe intenſam ſicut aliqua pars eiuſdē ſequit caliditatē.a.ꝯtinue intēdi:qꝛ ꝯtinue pȝ intēſiſſima caliditatis.a. intēdet.⁊ ꝯſilr eſt de ſiccitate.igit pȝ ꝙ totū.a. ꝯtinue intēdet.ḡ ſeqt ꝯclo.¶ Cõtra 4um ſic argr. Si.a.⁊.b.ſunt duo 34um vniformia eq̃ intēſa ⁊ equeue⁹ remittant eoꝝ medietates manētes eodeȝ gradu vniformes.igit ad oēȝ punctū vni⁹ equeue⁹ erit remiſſio ſicut ad punctū corrñdentē alteri⁹. igit ſi nūc ſunt eque intēſa:ſeqt ꝯti⁹ manebūt eque intēſa: ⁊ per ꝯñs neutrū erit alio intēſi⁹.ḡ ꝯclo nõ erit vā.¶ Q2 tñ i^a ꝯclo ſequat ex põne arguitur ſic. Ponatur ꝙ.a.⁊.b.ſint duo vniformia:ita ꝙ caliditas vtriuſqȝ ſit vt q̃tuor:⁊ ēt ſiccitas:vt ponit in caſu ꝓrio de.a.⁊c.⁊ ponat ꝙ in pria medietate.b. remittat caliditas ſicut in p^a medietate.a. ⁊ in 2ª medietate.b. remittat ſiccitas ſicut in ſcda medietate.a. tamen intendat ſiccitas in prima medietate.b.tardius ꝙ̃ ſua caliditas remittitur:⁊ intenditur caliditas in alia medietate tardius ꝙ̃ ſua ſiccitas remittitur.

	Veloci⁹ intēdit
cal.4.remi.	cali.4.
ſic.4.	ſic.4.remi.
veloci⁹ intēdit	

	tardi⁹ intēdit
cal.4.remi.	cali.4.
ſic.4.	ſic.4.remi.
tardi⁹ intēdit	

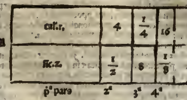
Tunc in vna medietate.b.velocius remittit caliditas ꝙ̃ in alia medietate intēdet.ḡ ſi gradus medi⁹ inter caliditatem vni⁹ medietatis ⁊ caliditatē alteri⁹ medietatꝫ ꝯtinue erit remiſſior ⁊ remiſſior.ḡ tota caliditas.b.corrñdebit gradui remiſſiori ⁊ remiſſiori.⁊ ſic arr de ſiccitate.ḡ tam ſiccitas.b. ignis ꝙ̃ ſua caliditas ꝯti⁹ corrñdebit gradui remiſſiori ⁊ remiſſiori:⁊ ſic.b.ꝯti⁹ erit remiſſius ⁊ remiſſi⁹:⁊.a.ꝯtinue erit intēſius ⁊ intēſius.ḡ cū.a.b.nūc ſūt eque intēſa ſeqt ꝙ cõtinue.a.erit intēſius.b. Si tñ ponat ꝙ q̃litas ſit eq̃ intēſa ſicut aliq̃ pȝ eiuſdē:⁊ tūc ideȝ ſeqt eo ꝙ caliditas.a.ꝯti⁹ erit intēſior caliditate.b.qꝛ maxia caliditas.a.ꝯtinue veloci⁹ intēdet maxia caliditate.b.vt pȝ per caſuȝ:⁊ ꝯſilr eſt de ſiccitate.igit tā caliditas.a.ꝙ̃ ſua ſiccitas ꝯtinue erit maior caliditate ⁊ ſiccitate.b. ⁊ per ꝯñs caliditas ⁊ ſiccitas.a. ꝯti⁹ erit maior caliditate ⁊ ſiccitate.b. ⁊ per ꝯñs.a.erit ꝯtinue intenſius.b.qd̃ fuit ꝓbādū.¶ Cõtra q̃ntā ꝯnēȝ arguit ipſam 35um improbādo.Si.n.quelȝ pars ꝓportiōalis.a. ꝓci⁹ equeue⁹ remittet cū pte ꝓportionali corrñdente.b.igit ad oia puncta corrñdentia ꝯtinue erit eq̃lis remiſſio: ⁊ ꝑ ꝯñs neutrū alio veloci⁹ remittet. ꝯña arguit.qꝛ vel.a.ꝑ totū vno gradu remittet vel latitudine.Si gradu vno.ḡ ſi quelȝ pȝ.b. equeue⁹ remittat cū pte ꝓportionali corrñdente.a.ſequit ꝙ.b.remittet eodeȝ gradu vniformiter per totuȝ.⁊ ꝑ ꝯñs neutrū alio velocius remittet. Si aūt.a.remittat mediāte latitudine alterationis:⁊ ad oēm punctū.b.eſt equalis remiſſio ſicut ad punctū corrñdentē.a.ergo ꝯſilr extēdetur illa latitudo alterationis in.b.ſicut in.a.⁊ per ꝯñs eidē gradui corrñdebit alteratio in.b.ſicut in.a. ſeqt ḡ ꝙ equeue⁹ ꝓciſe remittat vnū ſicut reliquū: ⁊ per ꝯñs nõ maiorabit ꝓportio intēſionis.a.ſupra intēſioneȝ.b.nec minorabitur. ergo ꝯclo eſt impoſſis. Et ꝙ iſta ſequat ex põne arguitur ſic. Poſito ꝙ.a.⁊.b.ſunt duo vniformia:ita ꝙ gratia argumenti ſit caliditas vtriuſqȝ vt q̃tuor: ⁊ ēt ſiccitas:⁊ diuidat vtrūqȝ in ptes ꝓportionales.Et pono ꝙ in pma pte ꝓportionali.b.remittat ſiccitas ad vnitatē vel ad duo:⁊ in ſcda parte ꝓportionali.b.remittat ſiccitas ad gradū in duplo remiſſiorē ꝙ̃ remittet ſiccitas prime ptis ꝓportionalis:⁊ in 3^a pte ꝓportionali.b.remittat ſiccitas ad gradeȝ in duplo remiſſiorē ꝙ̃ remittet ſiccitas ſcde ptis ꝓportionalis: ⁊ ſic in infinitū:⁊ ſtet in oi parte.b.caliditas vel remittat: vel ſi intendat:intēdatur tardius ꝙ̃ ſiccitas remittet: vel equeue⁹:⁊ duret ad oēm punctū ei⁹ remiſſio per horaȝ.Et pono ꝙ in omni pte ꝓportionali.a. pari remittat caliditas equeue⁹ ſicut remittit ſiccitas in pte proportionali corrñdente.b.⁊ in oi pte ipari.a.equeue⁹ remittat ſiccitas ſicut in parte ꝓportionali correſpõdente.b.remittetur ſiccitas ita.ſ.ꝙ in omni parte ꝓportionali.a.pari in fine erit equalis caliditas ſicut erit ſiccitas in parte ꝓportionali.b. correſpondente:⁊ in omni parte impari.a.ſit equalis ſiccitas ſicut erit in parte corrñdente.b. Et ponat ꝙ ꝓportionalr ſicut in aliqua parte ꝓportionali.a. fiat caliditas remiſſior: ita fiat ſiccitas maior:⁊ ſicut in aliqua pte ꝓportiōali fiat ſiccitas remiſſior:ita ꝓportionalr fiat caliditas intenſior.

B					
	cal.4.	4	4	4	
	ſic.remi⁹ ad.2.	1.	$\frac{1}{2}$	$\frac{1}{4}$	
	1.pars	2^a	3^a	4^a	

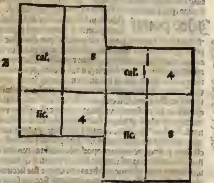
A					
	cal.4.	1.	16	$\frac{1}{4}$	
	ſic.remi⁹.ad.2.	8	$\frac{1}{2}$	16	

Quo poſito ſequit cõcluſio.Q2 eniȝ.a.⁊.b.ſūt duo vniformia eque intenſa vt ponit in caſu:⁊ ꝙ quelȝ pars proportionalis.a.equeue⁹ preciſe remittat ſicut pars ꝓportionalis.b.corrñdēs:pȝ:qꝛ qualitas remiſſior cuiuſlȝ partis ꝓ

poꝛtionalis.a.erit cōtinue eque intenſa ſicut q̄litas remiſ/
ſioꝛ partis ꝓpoꝛtionalis corrñdentis in.b. ⁊ quelꝫ pars.a.
⁊ etiā.b.erit eque intenſa cuꝫ qualitate remiſſioꝛi eiſdem
iuxta pōnēꝫ.ḡ ſequit̄ ꝙ quelꝫ pars ꝓpoꝛtionalis.a.erit cō
tinue ꝑciſe eque intenſa cū pte ꝓpoꝛtionali corrñdente.b.
⁊ per ꝯñs equeu' remittet quelꝫ pars ꝓpoꝛtiōalis.b.ſicut
pars corrñdens.a.⁊ ſilr ad oīa puncta vtriuſqꝫ erit remiſ/
ſio. Ponit̄ n. ꝙ per totā boꝛaꝫ ad oīa puncta vtriuſqꝫ fiat
remiſſio. Et ꝙ in infinitū maioꝛabit̄ ꝓpoꝛtio intēſionis.a.
ſupꝛa intenſionē.b.pꝫ:q2 erit.a.infinite intenſuꝫ: ⁊.b.ſoluꝫ
finite intenſum:q2 caliditas.b.erit ſolum finita: ⁊ etiaꝫ ſua
ſiccitas ⁊ caliditas.a.erit infinita.⁊ etiā ſua ſiccitas:q2 cali
ditas in prima pte ꝓpoꝛtionali.a. erit aliqualr intēſa ⁊ in
3^a in quadruplo intēſioꝛ: ⁊ ſic in infi^m de oībus partib^9 ipa
ribus. Nāꝫ ſiccitas in ṗma pte ꝓpoꝛtionali.b. erit in qua/
druplo intenſioꝛ q̄ ſiccitas in 3ª pte ꝓpoꝛtionali eiuſdem
b.vt ponit caſus: ⁊ in omni parte ꝓpoꝛtionali.a. ipari erit
ſiccitas eq̄lis ſicut erit ſiccitas in ꝓpoꝛtionali pte.b.corrñ/
dente.igitur in quadruplo remiſſioꝛ, in fine erit ſiccitas 3^e
ptis ꝓpoꝛtionalis.a.q̄ ṗme: ⁊ ſicut ſiccitas erit remiſſioꝛ:
ita caliditas erit maioꝛ.igit̄ in quadruplo intēſioꝛ erit cali
ditas 3^e ptis ꝓpoꝛ^lis.a. q̄ ṗme: ⁊ ſic de alijs ptib^9.parib^9
eſt arguēduꝫ ſicut de ptib^9 iparib^9 arguebat̄. Et ꝯſilr ar^r d̄
ſiccitate:q2 in ſc̄da ꝓpoꝛtionali.a. erit aliqua ſiccitas: ⁊ in
q̄druplo intēſioꝛ erit in 4ª pte ⁊ ſic d̄ alijs ptib^9 eſt arguē/
dum vt prius de alijs ptib^9 imparib^9 eſt argu^m. ergo tota
ſiccitas.a.ifinito gradui corrñdebit: ⁊ ēt ſua calitas.igit̄ ifi
nite intēſuꝫ erit.a.in fine.⁊.b.ſoluꝫ finite intēſuꝫ:ſed q2 ſic/
citas ſua ⁊ ēt eiuſdē calitas erit ſolū finite intenſa p ꝯñs in
infi^m maioꝛabit̄ ꝓpoꝛ^o iten^nis.a.ad inten^nem.b.ḡ ꝯclo ſeq̄t.
36^m ¶ Cōtra ſeptā ꝯnēꝫ ar^r ſic. vel eſt.a.vnifoꝛ^e vel difformе.
Si vnifoꝛ^e ⁊ quelꝫ ps ꝓpoꝛ^lis.b.eſt in du^o intēſioꝛ q̄ pars
ꝓpoꝛ^lis.a.corrñdens.igit̄.b.eſt vnifoꝛ^e ḡdu du^o ad gradū
quo eſt.a.vnifoꝛ^e: ⁊ p ꝯñs.a.nō eſt intēſi^o.b. Si ēt.a.ſit dif/
foꝛ^e: ⁊ q̄lꝫ ps ꝓpoꝛ^lis.b.eſt in du^o intēſioꝛ q̄ pars ꝓpoꝛ^lis.a.
corrñdens.igit̄ iten^o.b.difformis corrñdet gradui itēſioꝛi
q̄ intēſio.a.⁊ p ꝯñs.a.nō eſt intēſius.b. ḡ ꝯclo icludit ꝯdi/
ctionē. Et ꝙ 1ª ſequat̄ ar^r ſic. Ponat̄ de.b.vt ponit̄ in caſu
ꝑcedēte:ita ꝙ.b.ſit ita diſpoſitū ſicut erit in fine remiſſio/
nis in caſu ṗmo dato ⁊ ſit caliditas ṗme ptis ꝓpoꝛ^lis.a.in
du^o remiſſioꝛ q̄ ſiccitas ṗme ptis ꝓpoꝛ^lis.b. ⁊ in 3ª pte ꝓ/
poꝛtionali.a.ſit in du^o remiſſioꝛ calitas q̄ eſt ſiccitas in 3^a
pte ꝓpoꝛ^lis.b.⁊ ſic de alijs ptibus iparib^9: ⁊ ſit ſiccitas ſc̄de
ptis.a.in du^o remiſſioꝛ q̄ ſiccitas ſc̄de ptis ꝓpoꝛ^lis.b.⁊ ſic
de oīb^9 ptib^9 parib^9: ita ꝙ in oī pte ꝓpoꝛ^li.a.ipari ſit cali/
ditas in du^o remiſſioꝛ q̄ eſt ſiccitas in pte corrñdente.b.⁊
in oī parte ꝓpoꝛ^li.a.pari ſit ſiccitas in du^o remiſſioꝛ q̄ eſt
ſiccitas in parte correſpōdente.b.⁊ ſic ſiccitas in 3ª parte
ꝓpoꝛtionali.a.in quadruplo intēſioꝛ q̄ in prima: ⁊ ſic de
alijs ptibus imparib^9. ⁊ ſic calitas quarte ptis ꝓpoꝛ^lis.a.
in q̄druplo intenſioꝛ q̄ calitas 2^e: ⁊ ſic alijs ptib^9 parib^9.



Tunc cuiuſlibꝫ partis ꝓpoꝛtionalis.a. eſt qualitas remiſ/
ſioꝛ in duplo remiſſioꝛ q̄ qualitas remiſſioꝛ in parte coꝛ/
reſpondente.b.vt ponit caſus, ⁊ iuxta poſitionē omne ele/
mentuꝫ eſt eque intenſuꝫ cū ſua remiſſioꝛi qualitate. igit̄
pꝫ ṗma particula ꝯ^nis ⁊ vltima ſimilr ꝙ.a.eſt infinite intē/
ſum.⁊.b.ſoluꝫ finite intenſuꝫ. Caliditas eniꝫ.a.eſt infinita
vt arguitū eſt prius: ⁊ etiaꝫ ſua ſiccitas. igit̄ ſequit̄ ꝙ.a.eſt
infinite intenſum: ⁊.b.ſolum finite intenſum. ergo infinita
eſt ꝓpoꝛtio intenſionis.a.ad intenſionem.b.qđ fuit ꝓban
dum. ¶ Similr data iſta poſitione ſequit̄ ꝙ aliqđ eſt dif 7^a
foꝛme:cuius vtraqꝫ medietas eſt vniformis ⁊ eque inten/
ſa cum a^a. ¶ Similr aliquod eſt tale cuius vtraqꝫ medie/ 8^a
tas eſt vniformis ⁊ eque intenſa cum a^a: ⁊ tamē totum eſt
intenſius q̄ aliqua eius medietas. ¶ Contra primā ſic ar/ 37^m
guit̄. Si vtraqꝫ medietas eſt vniformis ⁊ eque intenſa cū
a^a: ſequit̄ ꝙ ad omneꝫ punctū eſt equalis intēſio.ergo nul/
licubi eſt difformitas: ⁊ per cōſequēs ſubiectuꝫ nō eſt dif/
foꝛme. ¶ Similr arguit̄ contra proximā. Si eniꝫ vtraqꝫ 38^m
medietas eſt vniformis ⁊ eque intenſa cum alia vndiqꝫ
eſt equalis intenſio.ergo nulla pars eſt alia intenſioꝛ n^e to/
tum aliqua parte intenſius. Tamē ꝙ iſta cōcluſio ſequat̄
arguit̄ ſic. Ponatur ꝙ in vna medietate.a. ſit caliditas vt
octo: ⁊ in alia medietate ſit caliditas vt quatuoꝛ: ⁊ in me/
dietate vbi eſt caliditas vt octo ſit ſiccitas vt quatuoꝛ: ⁊ in
alia medietate vbi eſt calitas vt q̄tuoꝛ ſit ſiccitas vt octo.



Tunc vtraqꝫ medietas.a.eſt vniformis ⁊ eque intenſa cū
alia:quia prime medietatis.a. caliditas eſt vniformis vt
octo: ⁊ ſiccitas vt quatuoꝛ. ergo iuxta illam poſitionem 1^a
medietas eſt vniformis vt quatuoꝛ. Similiter alteri^9 me
dietatis.a.eſt caliditas vt quatuoꝛ vniformis ⁊ ſiccitas vt
octo.igit̄ per poſitionē illam 1^a medietas eſt vniformis vt
quatuoꝛ: ⁊ ſic ſequit̄ ꝙ vtraqꝫ medietas eſt vniformis ⁊
eque intenſa cum alia. Et ꝙ totum ſit difforme arguit̄ ſic.
Una pars eius eſt alia parte intenſioꝛ. igit̄ totum eſt dif/
foꝛme.conſequētia pꝫ ⁊ antecedens ꝓbo ſic. Capio duas
quartas medias ⁊ partem compoſitam ex bis:ita ꝙ pun/
ctus medius totius ſit punctus medius illius partis:tunc
1^a pars correſpondet gradui intenſioꝛi q̄ eſt gradus vt
quatuoꝛ.nam ſiccitas eſt intenſioꝛ q̄ quatuoꝛ. ⁊ etiam ca/
liditas: quia ſiccitas in vna medietate illius partis eſt vt
vij. ⁊ in alia medietate vt quatuoꝛ: vt patet per caſum.
ergo tota caliditas iſta correſpondet gradui intenſioꝛi q̄
eſt gradus vt quatuoꝛ: quia ſm vnam poſitionē qualitas
huiꝰ difformis correſpondet gradui medio: ⁊ ſm aliam
gradui intēſiſſimo. ¶ Conſilr ar^r de ſiccitate.ḡ vtraqꝫ q̄li
tas illi^9 ptis corrñdet gradui intēſioꝛi q̄ eſt gradus vt.iiij.
⁊ ſi ſic iſta ps corrñdet gradui intēſioꝛi q̄ eſt.iiij.⁊ a^a pars
corrñdet gradui vt.iiij. vt arguitū eſt, igit̄ ſequit̄ cōcluſio.

¶ Octaua ꝯcluſio argᵉ ꝯſilr: qꝛ vtraqꝫ medietas eſt vniformis ⁊ eq̄ inteſa cū alia vt argutū eſt: ⁊ totū eſt inteſiꝰ q̄ aliqua medietas eiuſdē: qꝛ tota caliditas correſpondet gradui intenſiori q̄ eſt .iiij. vt pꝰ argutū eſt de iſta per cōpoſita ex duabꝰ q̄ntis intermedijs: ⁊ ſic eſt de ſiccitate. ergo ſequit ꝯcluſio.

9ª ꝯ ¶ Jtē data 1ª pōne ſeqt̄ q̄ .a. eſt tale cuiꝰ pᵃ ps ꝓporꝫ eſt aliq̄lr intenſa: ⁊ 2ª in duplo remiſſior: ⁊ 3ª in q̄druplo remiſſior: ⁊ ſic in infinitū: ⁊ tñ totū .a. eſt īfinite inteſum. Et iſta ꝯcluſio ſit īpoſſibilis arguit ſic: qꝛ ſi .a. ꝑ totū eēt eq̄ inteſuꝫ ſic eſt pma ps ꝓporꝫ nūc .a. foret ſoluꝫ finite inteſuꝫ: qꝛ eque inteſuꝫ cū pᵃ pte ꝓporꝫ. ſed nūc quelꝫ ps ꝓporꝫ illiꝰ eſt remiſſior q̄ nūc eēt. ergo .a. nūc nō eſt īfinite inteſuꝫ. Et q̄ ꝯcluſio ſequaẗ ex pōne 1ª arᵉ ſic. ⁊ pōaẗ q̄ .a. ſit diſpoſitū ſic poᵉ q̄ .a. erit in fine caſu poſito ad ꝯnem q̄ntā ꝓbatā: nūc vt ibi arguiẗ nunc eſt pᵉ ptis ꝓporꝫ ſiccitas aliquāta: ⁊ 2ᵉ ptis ꝓporꝫ caliditas in duplo remiſſior q̄ ſiccitas pᵉ ptis ꝓporꝫ: ⁊ ſiccitas 3ᵉ ptis ꝓporꝫ in duplo remiſſior q̄ caliditas 2ᵉ ptis proportionalis ⁊ ſic deinceps: ⁊ cuiuſlibꝫ ptis iparis erit ſiccitas q̄litas eius remiſſior: ⁊ cuiuſlꝫ ptis iparis caliditas erit q̄litas eius remiſſior. ergo ois ps ipar eſt eque inteſa cuꝫ ſua ſiccitate: ⁊ ois ps par eſt eque inteſa cuꝫ ſua caliditate: ⁊ per ꝯñs pma ps ꝓporꝫ eſt aliq̄lr inteſa: ⁊ 2ª in duplo remiſſior: ⁊ ſic in infinitū. Et q̄ totū ſit infinite inteſuꝫ arᵉ ſic ibi arguebaẗ: eo q̄ caliditas tota eſt īfinita ⁊ etiā ſiccitas. igiẗ ſeqt̄ ꝯ.

3ᵃᵐ pōnē
Jdeo ponaẗ 3ª pōnē quā ſic arguiẗ ex iſta ſequiẗ ꝯnes reducte ꝯ precedentē pōnem.

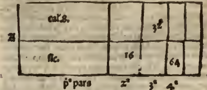
Nō reducꝫ ſcōdam ꝯcl. nemo qꝛ forteſſe vnᵐ accipit qꝺ ab hac pōne negaretur ſꝫ q̄ ñ plus faciat q̄litas inten ſior q̄ remiſſio ⁊c.

3ª ꝯ

Prima .n. vī ſequi: qꝛ ponaẗ caſus poſitꝰ pro pma ꝯne in pōne ꝓxia: ⁊ arguiẗ q̄ tūc correſpondebit gradui vt .vi. vt ibi arguiẗ: ⁊ q̄ nunc correſpondebit gradui remiſſiori q̄ .vi. vt ponit iſta poſitio: qꝛ correſpondebit gradui medio ꝓportionali inter octo ⁊ q̄tuor qui eſt gradus remiſſior q̄ ſex: vt ꝯſtat. ¶ Contra oēs ꝯnes arguiẗ vt priꝰ ſēt arguiẗ q̄ 3ª ꝯcluſio ſequiẗ ex illa pōne. Sit eniꝫ .a. vniforme cuiꝰ tam caliditas q̄ ſiccitas ſit vniformis vt q̄tuor ⁊ remittaẗ caliditas vniꝰ medietatis ad nō graduꝫ: ⁊ ſiccitas eiuſdē medietatis intendaẗ velociꝰ q̄ caliditas remittiẗ: ſic tñ q̄ gradus mediꝰ ꝓportionalis inter caliditatē ⁊ ſiccitatē ꝯtinue remittaẗ qꝺ eſt ſatis poſſe: qꝛ velocius proporᵉ pōt caliditas remitti q̄ ſiccitas intēdi: dūtamē tardius ſimplr remittiẗ q̄ ſiccitas intēdatur: eo q̄ cōtinue caliditas erit minor ſua ſiccitate. Ponaẗ tñ q̄ in alia medietate .a. remittaẗ ſiccitas ſicut caliditas in pma: ⁊ intēdaẗ caliditas in ſcda medietate ſicut ſiccitas in pma. Tunc q̄ vtraqꝫ medietas remitteẗ ad nō gradum pꝫ: qꝛ in vtraqꝫ medietate gradus medius ꝓportionalis inter caliditatē ⁊ ſiccitatē remitteẗ ad nō graduꝫ vt ponit caſus ⁊ tota medietas cōtinue erit eque inteſa cū medio gradu ꝓportionali inter illas q̄litates. igiẗ vtraqꝫ medietas .a. cōtinue remittiẗ ⁊ hoc eodē gradu. Et q̄ totū .a. cōtinue intēdeẗ pꝫ: qꝛ velocius ꝯtinue intēdeẗ caliditas in vna medietate q̄ remitteẗ in alia: qꝛ equeueᵉ remitteẗ caliditas in pma medietate ſicut ſiccitas in ſcda: ſꝫ velociꝰ intēdeẗ caliditas in ſcda medietate q̄ ſiccitas eiꝰ in eadē remitteẗ. ergo velociꝰ intēdeẗ caliditas in vna medietate q̄ in alia medietate remitteẗ. ergo tota caliditas ꝯtinue correſpondebit gradui inteſiori ⁊ inteſiori: ⁊ ꝯſilr arguiẗ de ſiccitate. ergo vtraqꝫ qualitas ꝯtinue intēdeẗ: ⁊ per ꝯñs gradus medius ꝓportionalis inter illas q̄litates eiuſdē ſpēi cōtinue

4ª ꝯ intēdeẗ: ⁊ ſi ſic totū .a. intendeẗ. ¶ Pro 4ª ꝯne arguiẗ ſic. Ponaẗ de .a. vt nūc poſitū eſt: ⁊ ponaẗ q̄ .b. ſit oīo ꝯſile .a. ⁊ q̄ in pma medietate eius velocius remittaẗ caliditas q̄ in prima medietate .a. ⁊ in ſcda medietate cōſilr remittatur ſiccitas ſicut in pª caliditas: ⁊ ſtet in pª medietate .b. ſiccitas: ⁊ in ſcda caliditas: ita q̄ gradus mediꝰ ꝓporꝫ inter caliditatē ⁊ ſiccitatē medietatū .b. ſit eq̄lis gradui medio ꝓporꝫ inter caliditatē ⁊ ſiccitatē medietatū .a. vt eſt ſatis poſſe. Tūc q̄ vtraqꝫ medietas .a. ꝯtinue erit eque inteſa cū medietate correſpōdente .b. pꝫ per poſitionem. Et q̄ .a. ꝯtinue erit intenſius .b. pꝫ: qꝛ caliditas .a. cōtinue erit inteſior q̄ nunc eſt vt ꝓbatuꝫ eſt: ⁊ caliditas .b. nō erit intenſior q̄ nūc eſt: eo q̄ in vna medietate remitteẗ caliditas ⁊ ſtabit in alia: ⁊ cōſimilr eſt de ſiccitate .a. eo q̄ ipſa intendeẗ ⁊ nō ſiccitas .b. Cum igiẗ caliditas .a. nūc ſit equalis caliditati .b. ſequiẗ q̄ caliditas .a. ꝯtinue erit inteſior q̄ caliditas .b. ⁊ ſic etiā arguiẗ de ſiccitate. ergo pꝫ q̄ totū .a. cōtinue erit inteſius q̄ totū .b. ergo ſequiẗ ꝯcluſio. ¶ De q̄nta cōcluſio ſequaẗ

arguiẗ ſic. Et ponaẗ de .b. vt poniẗ in ꝓbatione eiuſdē cōcluſionis in pōne ꝓxima: ⁊ ſit .a. ꝯſilr diſpoſitū oīno cū .b. diuiſum in ptes ꝓportionales: ⁊ intēdaẗ caliditas in pma parte ꝓportionali .a. ita q̄ in fine erit in duꝰ intenſior q̄ nunc eſt: ⁊ intēdatur ſiccitas in ſecūda parte ꝓportionali: ita q̄ in fine erit in duplo intenſior q̄ caliditas prime: ⁊ intendatur caliditas tertie partis ſic q̄ in fine erit in duplo intenſior q̄ ſiccitas ſcde: ⁊ in iſta 4ª pte ꝓportionali intendaẗ ſiccitas ad gradum dupluꝫ ad graduꝫ ad quem intendiẗ caliditas 3ᵉ: ⁊ ſic in infinituꝫ: ita q̄ in omni parte impari intendaẗ caliditas: ⁊ ſicut aliqua iſtaꝝ partiuꝫ eſt minor pma: ita ad gradum intenſiorē intendaẗ caliditas in illa parte q̄ in pma: ⁊ in omni pari intendaẗ ſiccitas ad gradum dupluꝫ ad illum gradum ad quē intendiẗ caliditas in parte imediate precedēte: ⁊ ponaẗ q̄ in omni parte ꝓportionali in qua intendeẗ caliditas remittaẗ ſiccitas: ⁊ in omni parte ꝓportionali in qua intendeẗ ſiccitas remittatur caliditas: ita q̄ gradus medius ꝓportionalis in oī parte ꝓportionali .a. cōtinue ſit eque intenſus cum gradu medio inter caliditatē ⁊ ſiccitatē in parte correſpōdente .b. ſicut ſatis ꝯſtat eē poſſe: eo q̄ q̄ntūcūqꝫ intēdaẗ vna q̄litas elemēti ita pōt alia remitti: ⁊ quātūcūqꝫ remiſſior volueris ſit gradus medius ꝓportionalis inter illas q̄litates.



Tunc q̄ .a. ⁊ .b. ſunt duo eque intenſa pꝫ per caſuꝫ: ⁊ quelꝫ pars ꝓportionalis .a. equeueᵉ remittet cū parte ꝓportionali correſpōdente .b. qꝛ quelibꝫ ps ꝓportionalis .a. equeuelociter remitteẗ cuꝫ gradu medio ꝓportionali inter caliditateꝫ ⁊ ſiccitatē iuxta poſitionē: ſed gradus medius ꝓportionalis inter caliditatē ⁊ ſiccitatē equeueᵉ remittetur in omni pte ꝓportionali .a. ſicut remitteẗ gradus medius ꝓportionalis in parte ꝓportiōali .b. correſpōdente vt poniẗ in caſu. ergo quelibꝫ pars ꝓportionalis .a. equeuelociter remitteẗ cum parte ꝓportionali correſpōdente .b. Et q̄ in infinitū maioꝛabiẗ ꝓportio inteſionis .a. ſupra intenſionem .b. arguiẗ: qꝛ in fine erit .a. infinite intenſum: ⁊ .b. ſolum finite intenſuꝫ: qꝺ ſic arguiẗ. Jn fine erit caliditas pme partis ꝓportionalis .a. aliquāta ⁊ in 3ª in quadruplo intenſior: ⁊ ſic deinceps vt poniẗ in caſu. ergo tota caliditas in fine erit infinite intenſa: ⁊ cōſimilr arguiẗ de ſiccitate: qꝛ in prima parte pari erit ſiccitas aliquāta: ⁊ in ſcda parte pari in quadruplo inteſior: ⁊ ſic in īfinitū vt poniẗ in caſu. ergo tam caliditas .a. q̄ ſua ſiccitas in fine erit infinite intenſa: ⁊ ſic ſequiẗ q̄ totum .a. erit infinite intenſiꝫ in fine: ⁊ .b. ſolum finite intenſum: eo q̄ ſiccitas eſt finita ⁊ etiam

ſua caliditas vt patet in caſu. igitur in infinitum maiora-
bitur proportio intenſionis.a.ſupra intenſionem.b. quod
6a ꝯ. fuit pbādū.ergo ſeqtᷓ ꝯclo. ¶ Qz etiā ſexta ꝯclo ſequatᷓ ex
pōne arᷓ ſic. ponatᷓ de.b. vt in caſu pcedēti:ita q̄ .b.ſit diſ-
poſitū vt in caſu pcedēte in fine toti⁹ remiſſionis:⁊ ponatᷓ
q̄ in oi pte pportionali.a.ipari ſit tāta calitas ſicut erit in
fine tpis in caſu pꝰio: ⁊ ꝯſilr etiā ſit de ſiccitate in ptib⁹ pa-
rib⁹ vt poſitū eſt pro fine tpis in caſu pꝰio:ſit tn̄ in oi pte
ipari ita remiſſa ſiccitas ⁊ in oi pte pari ita remiſſa cali-
ditas q̄ in oi pte pportionali.a.ſit gradus medius ppor-
tionalis iter calitatē ⁊ ſiccitatē in duplo remiſſior q̄ gra-
dus medi⁹ pportionalis inter ſiccitatē ⁊ calitatē in pte p-
portiōali correſpōdēte.b.ſm q̄ eſt ſatis poſſe: eo q̄ q̄tūcūqꝫ
ſit magna caliditas ita remiſſa pōt eē ſiccitas q̄ quocūqꝫ
gradu dato pōt gradus medi⁹ pportiōalis iter calitatē ⁊
ſiccitatē eē remiſſior vt ꝯſtat intuēti: qꝛ data aliq̄ calitate
⁊ ſiccitate aᵒ remiſſiori iter iſtas eſt gradus medi⁹ ppor-
tiōalis aliq̄lr intēſus:⁊ iter eandē calitatē ⁊ aliā ſiccitatē
eſt gradus medi⁹ pportiōalis in duᵒ remiſſior: ⁊ ſic in iſiᵐ
vt notū eſt. Jō iſto caſu poſito ſeqtᷓ ꝯ. naꝫ q̄ q̄lꝫ ps ppor-
tionalis.a.ſit in duplo remiſſior q̄ ps pportionalis.b.ſibi
correſpōdēs,pꝫ:eo q̄ gradus medi⁹ pportiōalis iter calitatē
cuiuſlibꝫ ptis pportiōalis.a.⁊ ſuam ſiccitatē eſt in duᵒ re-
miſſior q̄ eſt gradus medi⁹ pportiōalis iter calitatē ⁊ ſic-
citatē ptis pporlis correſpōdēns.b. ⁊ q̄lꝫ ps pporlis.a. eſt eq̄
intēſa cū gᵘ meᵒ pporli iter calitatē ſuā ⁊ ſuā ſiccitatē: ⁊ q̄lꝫ ps
pporlis.b.eſt eq̄ intēſa cū gᵒ meᵒ pporli iter ſuā ſiccitatē ⁊ cali
ditatē ſuā p pōneꝫ. g̊ q̄lꝫ ps pporlis.a. eſt in duᵒ remiſſior
q̄ ps ſibi correſpōdens in.b. Et q̄ q̄cūqꝫ pporne data pporne
maiori ſit.a.itēſi⁹.b.pꝫ:qꝛ.a.eſt iſiᵗᵉ itenᵐ:eo q̄ ſua calitas
eſt iſiᵗᵃ ⁊ etiā ſiccitas:vt pꝫ arg̊ᵐ eſt in ꝯne pꝰia:⁊.b.eſt ſolū
finite intēſuꝫ:eo q̄ tā calitas eſt finita q̄ etiā ſiccitas vt pꝫ.
g̊ ſeqtᷓ ꝯclo. ¶ Alia etiā ꝯclo 7a ⁊ 8a ſequuntur poſito caſu q
7a ꝯ ponebatᷓ ad pbatiōeꝫ earūdeꝫ ꝯnuꝫ in pōne pꝰia. Nam
in caſu iſto idē eſt gᵒ medi⁹ pporlis iter calitatē ⁊ ſiccitatē
vtriuſqꝫ medietatis:qꝛ calitas in medietate vna ⁊ ſiccitas
in eadē ſūt eq̄les calitati ⁊ ſiccitati in alia medietate. Et q̄
totū ſit difforme pꝫ:qꝛ capiatᷓ ps cōpoſita ex duab⁹ q̄rtis
itermedijs:tūc calitas iſti⁹ ptis correſpōdet gradui vt ſex:vl
gradui vt octo: vt ibi dr̄:⁊ ꝯſilr eſt de ſiccitate: ſꝫ gᵒ vt ſex
eſt intēſior q̄ gᵒ medi⁹ pporlis iter octo ⁊ q̄tuor vt ſatis pꝫ.
igitᷓ iſta ps eſt intēſior q̄ aliq̄ medietas toti⁹ ad pūctū meᵐ
8a ꝯ determiata.igitᷓ totū eſt difforᵉ.igitᷓ pꝫ ꝯclo 7ᵃ. ¶ Et 8a ꝯ
pꝫ p ideꝫ.pᵃ.n.ps pbata eſt: ⁊ 2a pꝫ:eo q̄ gᵒ mediᵒ pporlis
iter ſiccitatē ⁊ calitatē vtriuſqꝫ medietatis eſt remiſſior q̄ gᵒ
vt ſex: ⁊ tota calitas correſpōdet gradui vt ſex vel vt octo:⁊
ſilr tota ſiccitas:⁊ per ꝯñs totū eſt intēſuꝫ gradu vt ſex vl
gradu intēſiori.ſeqtᷓ g̊ ꝯclo. ¶ Cōtra iſtas duas ꝯnes arᷓ vt
9a ꝯ prius. ¶ Et q̄ 9a ꝯclo ſeqtᷓ ex pōne arᷓ ſic. Ponatᷓ caſus iſte
q̄.a.ſit ꝯſilr diſpoſitū ſicut erit in fine in caſu poſito ad pba
tionē q̄nte ꝯnis ꝯ iſtā pōneꝫ reducte pter B qd vbi ponitᷓ
q̄ gᵒ medi⁹ pporlis iter calitateꝫ ⁊ ſiccitatē cuiuſlibet ptis
pporlis.a.ſit eq̄lis gradui meᵒ pporli inter calitatē ⁊ ſiccitatē
ptis correſpōdētis.b.hic aūt ponatᷓ q̄ reſpōdeat ſiccitati correſpō-
denti ptis.b.⁊ ſeqtᷓ q̄ pᵃ ps pporlis ipſi⁹.a.eſt aliq̄lr itēſa:
⁊ 2a ps pporlis in duplo remiſſior:⁊ 3a in q̄druplo: ⁊ ſic in
iſiᵐ:qꝛ in iſto caſu in fine erit ſiccitas pᵉ ptis pporlis aliq̄lr
intēſa:⁊ ſiccitas 2ᵉ ptis pporlis.b.in duᵒ remiſſior: ⁊ ſic in
infiᵐ:⁊ gᵒ medi⁹ pporlis iter calitatē ⁊ ſiccitatē cuiuſlꝫ ptis p-
portiōalis.a.eᵗ eq̄ intēſi⁹ cū ſiccitate ptis pporlis correſpōdētis in
b.⁊ q̄lꝫ ps pporlis.a.in fine erit ꝯſilr intēſa: ſic gᵒ medius
pporlis iter calitatē ⁊ ſiccitatē eiuſdē ptis. igitᷓ pᵃ ps pporlis
a.tūc erit aliq̄lr intēſa ⁊ 2a in duᵒ remiſſior ⁊ ſic deinceps:⁊
nūc eſt.a.ꝯſilr diſpoſitū ſicut tūc erit.g̊ pᵃ ps pporlis eſt nūc
aliqualr intēſa:⁊ 2a in duᵒ remiſſior:⁊ ſic in iſiᵐ:⁊ totum.a.

eſt iſinite intēſuꝫ:qꝛ calitas eſt iſinita ⁊ ſiccitas eſt infinita
vt ibi arguebatur: ſequentᷓ igitᷓ cōtra iſtā poſitioneꝫ incō
uenientia ſicut contra alias.

Pro iſtis ſuſtinēda eſt 3a pō.ſ.q̄ oē elitū hñs duas Suſtinet 3a pō.
qualitates pmas inequē intēſas eſt eque
intēſuꝫ cū gradu medio pporli inter iſtas q̄litates:⁊ ſi vna
qualitas ei⁹ foret vt octo ⁊ alia vt duo medi⁹ gradus ppor
tionalis inter iſtas eſt vt q̄tuor: ⁊ ideo totū correſpōdet gra-
dui vt q̄tuor:⁊ ſic neccio remiſſa vna q̄litate ⁊ ſtāte aᵃ totū
dꝫ remitti. ¶ Et tūc ad pmā ꝯneꝫ negatᷓ iſta:⁊ ad pbatio- Ad pmam
nem admittatᷓ caſus:⁊ dr̄ q̄ in fine erit remiſſius q̄ ſex:qꝛ ꝯnem.
gradus medi⁹ pportionalis iter octo ⁊ q̄tuor eſt remiſſior
q̄ ſex.Et tūc cū arguitᷓ q̄ ſiccitas tūc faciet vt duo ⁊ cali-
ditas vt q̄tuor.negatᷓ:qꝛ eq̄lis calitas cum ſiccitate remiſ-
ſiori min⁹ facit q̄ cū intēſiori:⁊ iō ſicut ſiccitas erit tūc re-
miſſior q̄ nūc eſt: ita tūc min⁹ faciet q̄ in pnᵒ:⁊ ideo tunc
nō faciet vt q̄tuor in cōpatiōe ad totū:⁊ ſic nō pcedit arᵐ.
¶ Pro 3a ꝯne cōceditᷓ ⁊ ſilr 4a:⁊ ſic etiā quinta ⁊ ſexta.⁊ Ad 3um
tūc ad argᵐ in oppoᵐ ꝯcediᷓ q̄ ad oēm punctū erit eq̄lis
remiſſio ſicut ad aliquē:⁊ tūc cū dr̄ ad nullum punctū erit
intēſio.hoc neᵗ:qꝛ ad punctū mediū erit remiſſio vtriuſqꝫ
medietatis:⁊ tn̄ ad eundē punctū erit intēſio toti⁹ corpis ⁊
cuiuſlꝫ alteri⁹ ptis cui⁹ iſte punct⁹ eſt medi⁹:⁊ ſi ex iſto ar-
guitᷓ.igitᷓ ad eundeꝫ punctū ſilr eſt intēſio ⁊ remiſſio:dr̄ q̄
nō eſt incōueniēs:⁊ hoc reᵉ diuerſoꝝ:quoꝝ vnū intēdetᷓ ⁊
aliud remittetᷓ: ⁊ tūc intelligē q̄ ly ad capitᷓ ibi excluſiue.
¶ Ad argᵐ ꝯtra 4am ꝯnem negatᷓ iſta ꝯñ.ſ.ad oēm pun Ad arm ꝯ 4m
ctū vni⁹ erit equalis remiſſio ſicut ad aliquē punctuꝫ cor-
reſpōdentē alteri⁹.g̊ ſi ſunt nūc eque intēſa ꝯtinue erunt eque
intēſa:qꝛ lꝫ ad oīa puncta erit eq̄lis remiſſio: hoc nō eſt in
cōparatione ad tota ſubiecta:ſed in cōpatione ad ptes ad
iᵃ puncta terminatas:⁊ ſic ſolutᷓ ꝯclo. ¶ Ad argᵐ ꝯ q̄ntam Ad arm ꝯ 5m
ꝯnem negatᷓ iſta ꝯñ. ad oēm punctū.a.erit pciſe equalis
remiſſio ſicut ad aliquē punctū correſpōdentē.b. g̊ equalr re
mittetᷓ vnū ſicut reliquū:qꝛ ſtat.a.ꝯtinue intēdi:lꝫ ad oēm
punctū ſit equalis remiſſio:⁊ tn̄ q̄nta ꝯclo pōt negari: eo q̄
in iſinitū intēdetᷓ pma ps pportionalis.a. incipiēdo diui-
ſionē in alio extremo ipſius:vt argᵗ de toto.a. ſed ꝯclo eſt
cōcedēda:qꝛ ſꝫ illā diuiſionē oēs ptes pporles.a. equeᵉ
remittentᷓ:⁊ ſic ꝯclo nō eſt incōueniēs. ¶ Cōſilr dicitᷓ ad Ad 6m
ſextū q̄ quelꝫ ps pportionalis.a.ſm iſtā diſionē eſt in duᵒ
remiſſior q̄ ps pporlis.b.correſpōdēs: ſꝫ nō ſm aliā diſionē.
⁊ dr̄ q̄.a.eſt difforme:⁊ tūc q̄n arguitᷓ. igitᷓ ſi q̄lꝫ ps ppor-
tionalis.b.ſit in duᵒ intēſior q̄ ps correſpōdēs.a.ſeqtᷓ.b.eē in-
tenſius.a.dr̄ q̄ nō ſeqtᷓ accipiendo ptē pporlem ſm iſtā diuiſio-
nem.Si tn̄ ſimplr cōcederetᷓ de oi pte pporli ſequeretᷓ q̄
a.nō foret iſinite intēſius.b. ¶ Ad ſeptimā ⁊ octauā ꝯneꝫ Ad 7m
cōcedantᷓ:⁊ ad argᵐ in oppoᵐ negatᷓ hec ꝯñ. Preciſe ad ⁊ 8um.
oēm punctū eſt eq̄lis intēſio.igitᷓ totuꝫ nō eſt difforme:qꝛ
lꝫ ad oēm punctū ſit eq̄lis intēſio,ad aliquē tn̄ punctū eſt
aliq̄ intēſio alicui⁹ ptis cui⁹.ſ.iſte punct⁹ eſt medi⁹:⁊ tn̄ ad
eundeꝫ punctū eſt minor intēſio alteri⁹ ptis que ad iſtum
punctū terminatᷓ:cui⁹.ſ.iſte punct⁹ nō eſt punct⁹ intrinſecᵘ
tenēdo ly ad excluſiue vt pdicitᷓ:⁊ ſic nō pcedit argumentū.
¶ Ad nonā ꝯneꝫ ꝯceditᷓ q̄ ſm iſtā diuiſionē pᵃ ps ppor- Ad 9um
tionalis eſt aliq̄lr intēſa ⁊c. Sꝫ accipiendo diuiſionē in alio ex-
tremo pᵃ ps pporlis eēt iſinite intēſa:qꝛ iſta ꝯtineret ſcdaꝫ
ptē pporlem ⁊ reſiduas in q̄b⁹ argutū eſt q̄ calitas eſt iſiᵗᵃ
⁊ ſiccitas iſinita. ¶ Et tūc ad argᵐ in oppᵐ negatᷓ ꝯñtia:ſi
quelꝫ ps pporlis eſt eq̄ intēſa cū pᵃ totū eēt finite intēſuꝫ.
ſtaret.n.q̄ gradus medi⁹ pporlis iter calitatē ⁊ ſiccitatem
cuiuſlꝫ ptis pporlis ſm iſtā diuiſionē eēt tant⁹ ſicut gradus
medius pporlis iter calitatē ⁊ ſiccitatē pme ptis pporlis:
dū tn̄ ſm diuerſas ptes tam calitas q̄ ſiccitas maioretᷓ in
infinitū vel ſit infinite magna:⁊ ſic argᵐ nō pcedit.

¶ Tractatus Quartus de intēſione ⁊ remiſſione mixtoꝝ.

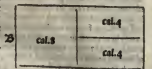
1ª pō. RESTAT pōnes cōcernētes intenſiones ⁊ re-
miſſionē mixtoꝝ tāgere ⁊ ſunt 4ᵒʳ
in numero. ¶ Pⁱa ponit ꝙ intēſio mixti ſe-
quiť ꝓportionē qlitatis dominātis ad qlitatē ſub-
dominātē vt ſi ſit mixtū ex calido ⁊ frigido ⁊
calitas ſit maior ꝙ̄ friditas: tūc illud mixtū eſt alio inten-
ſius ſicut ꝓportio calitatis ad frigiditatē in iſto eſt maior
ꝓportiōe calitatis ad friditatē in alio mixto: ⁊ penes hoc
ꝙ iſta ꝓportio maiorať ſic maiorať iᵘˢ intenſio: ⁊ ſi ꝓporᵒ
2ª minoreť: tūc intēſio iᵘˢ minorať ⁊c. ¶ Scđa pō ponit ꝙ oē
mixtū eſt eque intēſuꝫ ſicut eſt qlitaſ dn̄ans in eo: vt ſi cali-
ditas alicuᵘˢ mixti eſſet vt quatuor ⁊ friditas vt duo: tūc
3ª totū eſſet ita intēſuꝫ ſicut calidū vt quatuor. ¶ Tertia po
nit ꝙ oē mixtuꝫ eſt in duᵒ remiſſius ꝙ̄ ſimplex equalr̄ di-
ſtans a nō gradu per ꝙ̄tū qlitaſ dn̄ans excedit qlitatē ſub-
dominātē: vt ſi calitas in mixto excederet ſuā friditatē ꝑ
quatuor: tūc totū mixtū eſſet calidū vt duo: ⁊ addit etiā
ꝙ iᵈ mixtū eſt equalr̄ intēſuꝫ ſicut ſi qlitaſ dn̄ans vel qli-
tas dn̄ans foret vna medietas per ſe vel extēderetur per
vnā medietatē: ⁊ aliud qlitaſ .ſ. ſubdn̄ans eſſet aᵃ medie-
4ª tas ſeu qlitas extēſa ꝑ aliā medietatē. ¶ Quarta ponit ꝙ
attēdiť penes exceſſuꝫ dn̄antis qlitatis ſupra qlitatē ſubdn̄ans
ita ꝙ iᵈ mixtū eſt eqlr̄ intēſuꝫ cū ſimplici equalr̄ diſtante
a nō gradu ſicut qlitaſ dn̄ans excedit qlitatē ſubdn̄ans. Et
hec eſt bipartita. Una eniꝫ ponit ꝙ oīs qualitas eſt eque
intēſa ſicut aliqua eiᵘ pars: ⁊ ꝙ penes exceſſum qualitatis
ſumme ſeu maxime dn̄antis ſupra qlitatē aliā ſeu ꝑ totū
extēdať ſeu per ꝑtes hꝫ intēſio totiᵘ attēdi. Sed alia pōit
ꝙ ſi qualitas ſit diffor̄mis extēſa per aliqđ ſubm ſīta cor-
rn̄det alicui gradui intrinſeco: ⁊ ſic penes exceſſuꝫ gradus
cui corrn̄det iᵃ qlitas intēſior ſupra gradū cui corrn̄det aᵃ
qualitas .ſ. remiſſior attēdiť intēſio huius mixti. Si etiam
qualitas dn̄ans extēdať per ꝑteꝫ ⁊ nō per totū: ⁊ ēt qlitas
ſubdn̄ans: tūc vt dictū eſt vbi tāgiť de denoīatione quali-
tatis: illa qlitas nō denoīat totū ita itēſuꝫ ſicut eſt gradus
illius qualitatis: ſed ſub aliquo gradu remiſſiori. Capiať
igiť gradus quo qlitas intēſior denoīaret totū ꝑ cuiᵘ ꝑteꝫ
extendiť: ⁊ capiať gradus quo qlitas remiſſior ſufficit de-
noīare totū ſubm ſi per ſe ibi eſſet ⁊ penes exceſſuꝫ vnius
talis gradus ſupra aliū totiᵘ intēſio attēdiť: vt ſi calitas vt
octo extēdereť per vnaꝫ medietatē ⁊ friditas vt quatuor
extēdereť per aliā medietatē: tūc iſta qlitas vt octo iuxta
pōneꝫ vnā ſufficit totū ſubm denoīare ſoluꝫ gradu vt 4ᵒʳ
deducta friditate: ⁊ iᵃ friditas deducta calitate denoīaret
totū gradu vt duo. ideo exceſſus denoīatiōis vnius ſupra
aliā eſt ſolum binarius: ⁊ ideo totuꝫ mixtū eſt ita intēſum
ſicut ſimplex vt duo.

3ª pᵐ pōneꝫ **Contra primā** pōnem arguiť eaꝫ vnica ratiōe
ipioᵒᵉ: ex iᵃ eniꝫ ſeqꝫ ꝙ infinite
intēſius eſt aliqđ remiſſiuꝫ mixtuꝫ ꝙ̄ ſummū. ſigneť enim
aliqđ mixtū cuiᵘ calitas intēdať ad ſummū ⁊ friditas re-
mittať ad nō graduꝫ: tūc in infiᵐ maiorabiť ꝓportio cali-
ditatis ſupra friditatē eo ꝙ calitas cōtinue erit maior ꝙ̄
nūc eſt ⁊ ad ſui ſubduplū ſubquadruplū ſuboctuplum:
⁊ ſic in ifiᵐ remitteť friditas: ⁊ per ꝯñs ifinite intēſuꝫ erit
añ finē. ꝯña tenet ꝑ pōnē. Ponať igiť ꝙ ſub quocūqꝫ gra
du erit hoc mixtū ꝙ ſit aliud mixtū ſic intēſum: ita ꝙ ſint
infinita mixta: ⁊ ſeqꝫ ꝙ cū ifinite intēſuꝫ erit pᵐ mixtum
datū ꝙ ifinite eſt aliqđ iſtoꝝ intēſuꝫ: qꝛ eque intenſum eſt
aliqđ iſtoꝝ ſicut vnꝙ̄ erit illud: ⁊ gradus ſummᵘ eſt ſoluꝫ
finite intēſus qꝛ finite diſtat a nō gradu vt arguiť vbi tā-
giť penes qđ ſimplr̄ attēdiť intēſio ⁊ remiſſio qualitatis.
igiť ſeqꝫ ꝙ ifinite intēſius eſt aliqđ iſtoꝝ ꝙ̄ ſummū: ⁊ qđlꝫ
iſtoꝝ eſt remiſſum ⁊ mixtū. igiť ſeqꝫ ꝯclō que tñ eſt falſa:
qꝛ friditas impedit denoīationē calitatis. igiť nunꝙ̄ erit
mixtū: lꝫ hēet calitatē ſummā eque inteñ calꝫ ſicut ſumme
calm. igiť nec a multo fortiori intenſius cū iᵃ caᵗᵉ nūꝙ̄ erit
ſummū ꝙ̄diu habebit friditatē ſecū admixtā ſeu coexpē-
ſaꝫ. ¶ Itē ſeqꝫ ꝙ vbi aqͣ pura inciperet agere in ignē ſum-
muꝫ ſubito gn̄aret aliqđ ifinite calm: qꝛ ſubito gn̄aret fri-
giditatē nᵒᵐ: tñ certā nec per certā latitudinē ſubito ibi re
mitteret calitatem: eo ꝙ ifinite velociter ageret. igiť imeᵗᵉ
poſt iſtud inſtās gn̄aret mixtuꝫ in quo ifinite magna eſſet
ꝓportio calitatis ad friditatē. cū igiť intēſio mixti ſequiť
ꝓportionē qlitatis dn̄antis ſupra qlitatē ſubdn̄antē: ſeqꝫ
ꝙ imediate poſt hoc gn̄aret mixtuꝫ ifinite calm. ꝗ ſeqꝫ ꝯ.
¶ Cōtra quā ſic arguiť. ꝓ nō eſt nāle ꝙ friduꝫ gn̄et calm
vel intēdat. 2ᵒ ſic: ex quo iducit friditatē poriᵘ denoīationē
calidi ipediret iᵃ acᵒ ꝙ̄ ꝓmoueret: ⁊ ita cū in ꝑncipio tota
caliditas ſoluꝫ finite denoīat. ꝗ inducta friditate nō ifini-
te denoīabit. ꝗ iᵃ poſitio nō eſt vera.

Pro ſecūda pōne ſic arᵗ. Signeť mixtū ex calo
⁊ frido. ⁊ arᵗ ſic. eadē eſt mā mixti ⁊ Pro 2ᵃ pōne q̄ ē Eſberi.
ſimplicis. ꝗ iᵃ calitas eqlr̄ denoīabit mixtū eē calidum ⁊
ſimplex eo ꝙ eadē ē calitas mixti ⁊ ſimplicis. ſi igiť fridi
tas nō ipediet dnoīationē ſimplicis ab iᵃ calitate ꝑ idē nō
ipediet denoīationē mixti ab eadē calitate. ¶ Cōtra illđ 3 pōneꝫ
ſic arguiť. Ex iᵒ ſeqꝫ ꝙ vbicūqꝫ mixtū calm remitteť ad
nō gradū eē calidi ſubito magnā latitudinē intēſionis de-
perdet. Ex ꝗ ſeqꝫ ꝙ aliquid infinite veloʳ aget ꝑ certū tē-
pus: ⁊ ꝙ ex ꝓportiōe finita ꝓueniet motᵘ ifinitᵘ. ¶ Pⁱa
ꝯclō arᵗ ſic. Sit .a. mixtū ex calido ⁊ frido cuiᵘ .b. ſit qlitaſ
dn̄ans ⁊ calm ⁊ remittať calitas .b. ad gradū mediū ⁊ intē
dať friditas .a. ad mediū: qꝛ aliter .a. nō remittereť ad nō
gradū eē calidi: tūc ſic arguiť .a. ⁊ .b. ꝯtinue ante finē erunt
eque calida: ⁊ in fine .a. erit nō calm ⁊ .b. calidum in gradu
medio. ꝗ totā latitudinē intēſionis a gradu medio vſqꝫ ad
nō graduꝫ ſubito deꝑdet .a. ⁊ ſic de oī alio eſt arguēdum.
igiť ſeqꝫ ꝯclō. ¶ Scđa ꝯclō etiā ſequiť: qꝛ ponať ꝙ illud 2ᵒ
agēs qđ remittet calitatē .a. priᵘ remittat calitatē ad meᵐ
ad puncta ꝓpinqora ſibi ꝙ̄ remotiora: ita ꝙ in oī inſtāti
huiᵘ tpis erit calitas ad aliquē punctū ad graduꝫ mediuꝫ
⁊ ꝙ ꝯtinue añ iſtud inſtās erat calitas itēſior ad iſtū pun-
ctū ꝙ̄ tūc erit ſicut eſt verū: eo ꝙ citius remittet calitatem
ad gradū mediū ad pūcta ſibi ꝓpinqora ꝙ̄ remotiora: qꝛ
velociᵘ aget in ꝓpinquū ꝙ̄ in remotū: quo poſito añ qđlꝫ
inſtās imeᵗᵉ poſt hoc erit aliq̄ pars intenſa ſupra gradum
mediū que in illo inſtāti nō eſt aliq̄lr̄ intēſa. igitur añ qđlꝫ
inſtās imeᵗᵉ ſubito totā latitudinē a gradu medio vſqꝫ ad
nō graduꝫ deꝑdet. ꝗ iſtud remittēs infinite velociter aget
per totū tꝑs. ergo ſeqꝫ ſcđa ꝯclō. ¶ Cum igiť illud agens 3ᵒ
erit ſoluꝫ finite potētie: ⁊ .a. finite reſiſtētie ⁊ infinite velo-
citer remitteť: ſeqꝫ ꝙ ex ꝓportiōe finita ꝓuenit actio ifi-
nita que fuit ꝯclō tertia deducēda. ¶ Item ſequiť ꝙ .a. b. 4ᵒ
ſunt duo ꝑciſe eque calida que ꝯtinue equeueᵗ remitteneť:
⁊ tñ citius deueniet .a. ad nō graduꝫ ⁊ fiet nō caliduꝫ ꝙ̄ .b.
In caſu eniꝫ precedēti .a. b. ſunt eque calida ꝑciſe ⁊ ꝯtinue
añ finē erūt eque calida per pōneꝫ ⁊ ꝯtinue añ finē eqneᵗ
remittenť ⁊ in fine .a. erit nō calm vt cōſtat: qꝛ tūc tantuꝫ
habebit de calitate ſicut de friditate: ⁊ .b. tūc erit calm: qꝛ
in gradu medio. ꝗ ſeqꝫ ꝯclō. ¶ Iō forte dī ꝙ nō eſt incō Rñſio.
ueniēs ꝙ .a. ſubito certam latitudinē deꝑdet. ¶ Cōtra .a. Cōtra
nullaꝫ latitudinē deꝑdet eē calidi niſi per remiſſionē cali-
litatis ⁊ intēſionē friditatis. igiť cū ſubito nulla erit acqſi-
tio friditatis nec remiſſio calitatis ſeqꝫ ꝙ finite velociter
ſoluꝫ remitteť .a. ⁊ nullaꝫ latitudinē ſubito deꝑdet. ¶ Itē
data iᵃ rñſione ſequiť 2ᵃ ꝯclō ⁊ 3ᵃ vt prius oīo arguebať.
¶ Itē ſic arᵗ ex iᵃ: ſeqꝫ ꝙ ideꝫ eſt calm ⁊ friduꝫ. Signeť
eniꝫ vnū mixtū cuiᵘ calitas ſit dupla ad friditatē ⁊ arᵗ ſic.

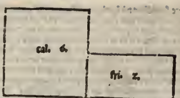
hec frigiditas nō īpedit denoīationē illi° caliditatis per
pōnē.ḡ lȝ ſibi tāta frigiditas adderet̃ i° nō īpediret:ꝛ per
ꝯñs nec totū cōpoᵐ ex his ſicut ex duob° nō quātis nunq̃
fit vnū q̄tū:ꝛ ſi ſic lȝ tāta eēt frigiditas ſicut caliditas nō
minus totū denoīaret calidū:ꝛ per ꝯñs adhuc totū eēt ca
lidū ꝛ eadē rōne frigidū:eo ꝙ tātū hīet de calitate ſic̃ de
friditate pciſe. Itē rōnale eſt ex quo tota friditas totū de/
noīatione eē calidi īpedit ꝙ pars friditatis ꝑtem tolleret
P° ad hec ꝛ c Eſbe ef in mac. de incipit ꝛ decimi. denoīatiōis caliditatis:ꝙ tñ neᵗ hec poſitio. ℂ Pro iſtis
forte dī ꝙ latitudo mixti nō terminat̃ ad nō gradū ſimpʳ
in extremo remiſſiori:ſȝ ad gradū meᵐ toti° latitudis cali
ditatis qui eſt nō gradus eē calidi mixti:eo ꝙ nullū mix/
tū pōt eſſe calidū i° gradu:ꝛ ſic nullū mixtū pōt eē alio in
duplo mīn° calidū:q̄a omne mixtū eſt calidū ſupra meᵐ:ꝛ
nullus gradus ſupra gradū meᵐ toti° latitudis caliditatis
eſt duplus ad aliū ſupra meᵐ vt ꝯſtat:eo ꝙ gradus ſūmus
ȝ riſione. eſt pciſe duplus ad mediū toti° latitudinis. ℂ Cōtra hāc
riſionē arʳ:ꝛ h ponēdo ꝙ q̄litas minus denoīat ſubm q̄ñ
extēdit̃ per ptē illius q̄ȝ q̄ñ extēdit̃ per totū:vt ṗus dicit̃:
vbi tāgit̃ de denoīatiōe q̄titatis. ℂ Alia.n.poſitio eſt po
nēs ꝙ q̄litas eſt eque itēſa ſicut aliq̄ pars eius:ꝛ tātuȝ de/
noīat ſicut ſufficit ſiue extēdat̃ per totū ſiue nō:ſi non ad/
miſceat̃ cū ſuo ꝯ̄rio.Sȝ hec riſio hȝ hāc pōnem negare ꝛ
negat:q̄a iᵃ aliqualr ꝯcederet ꝙ aliqḋ eſt ſūme calidū ad/
mixtū cū ſuo ꝯ̄rio:vel cui° aliq̄ pars eſt frigida vt ſit vna
pars ſūme calida:ꝛ alia remiſſe frigida. Hāc tñ riſioneȝ
cūtrat iᵃ poſitio q̄ñ poʳ ſi nō admiſceat̃ ſuo ꝯ̄rio ꝛc̃.q̄a tūc
nō eſt ibi aliqḋ reale īpediēs:ideo ſolū alij vt ꝓdicit illaȝ
pōneȝ zᵉᵃ poterūt rōnabilr̃ ſuſtinere. Hec igit̃ riſio cum
pōne iuxta ſic ponētes multiplr̃ reprobat̃. ℂ Primo arʳ
ſic ꝙ aliqḋ mixtū pōt eē alio in duplo minus calidū:ꝛ in
triplo min° calidū:ꝛ ſic de alijs ex quo ſeq̄t̃ ꝓpoᵐ. ℂ Po
nat̃ eīȝ ꝙ.a.ſit mixtū equalr̃ cōpoᵐ ex calido ꝛ frigido ad
cuius extremū applicet̃ ſūme calidū ꝛ agat ꝯtiʳ ex ꝓporᵗᵉ
quā hȝ ad agēdū:ꝛ ſeq̄t̃ ꝙ īmediate poſt h erit.a.calidū:
eo ꝙ nūc eſt equalr̃ cōpoᵐ ex calido ꝛ frigido:ꝛ īmediate
poſt h ſua caliditas itēdet̃ ꝛ nō ſua frigiditas vt pono:ſȝ
magnū tp̄s erit anteq̄ȝ.a.erit calidū ſupra mediū.igit̃ cuȝ
ſua q̄litas dñans ꝯtīue erit ſupra mediū.pȝ pōneȝ eē fal
ſam.añs pȝ:q̄a ſi.b.foret vnū tale:cuius vna medietas ſit
ſūme calida:ꝛ alia ſit equalr̃ cōpoſita ex calido ꝛ frido.

Tunc magnū tp̄s
erit anteq̄ȝ.a. erit
ita intēſa ſic nunc
eſt.b. q̄a magnuȝ
tēpus erit anteq̄ȝ
medietas.a.ſit ſu/
me cal̃a:ꝛ anteq̄ȝ
actio ad pūctum



mediū deueniat:eo ꝙ ṗus aget in ꝓpīquū q̄ȝ in remotiū.
igit̃ per totuȝ i° tp̄s erit vna medietas.a.equalr̃ cōpoſita
ſic̃ vna medietas.b.ꝛ alia medietas.a.tunc erit remiſſa:et
alia medietas.b.ſūma.igit̃ ꝑ totū illud tp̄s erit.b.intēſius
a.ꝛ.b.ꝑ illud tp̄s erit ita itenᵐ ſic̃ nūc eſt:ꝛ nūc eſt eque in/
tēſuȝ ſic̃ ſimplex in gradu medio toti° latitudis caliᵗᵉ.igit̃
ꝑ magnū tp̄s erit.a.remiſſius tali ſimplici.ḡ ſeq̄t̃ ꝙ poſi/
tio eſt falſa.añs arʳ:q̄a poſito ꝑ imaginationē ꝙ caliditas
ꝛ friditas in medieᵗᵉ.b.equalr̃ cōpoſita remittant̃ eq̄ueloʳ
ad nō gᵐ totū.b.nec itēdet̃ nec remittet̃:q: tātū depēdet de
ſpeᶜⁱᵉ ſue.intēſionis ſic̃ de iutia°:Sȝ in fine foret in medio gᵘ
vel corrīderet ſimplici in gᵘ medio vt arʳ.vbi tāgit̃ qualr̃
qualitas ſubm denoīat.igit̃.b.nunc tali gradui corrīdet.
ℂ Silr̃ poſito ꝑ imaginaᵗⁱᵒᵉ ꝙ iſta meᵗᵃˢ ſūma.b.remittat̃
ad nō gᵐ ſine inductiōe frigiditatis ſtāte alia medietate ꝛ
manēte medieᵗᵃᵗᵉ iᵃ remiſſa in fine nō q̄lificata:ꝛ.c.eēt cor/
ṗus ſūme calm̄ ꝑ totū:qḋ ꝑ totū remittet̃ ad nō gᵐ calita/
tis ſine inductiōe friditatis:tūc in duplo veloci° remittet̃
c.q̄ȝ.b.eo ꝙ remittet̃ ꝑ totū i° gᵘ quo.b.ꝑ medieᵗᵃᵗᵉᵐ ſolū:ſȝ
c.remittet̃ a gᵘ ſūmo pciſe ad nō gᵐ.ḡ.b.remittet̃ a gradu
medio ad nō gᵐ:q: ꝑ induplo minore latituᵈⁱⁿᵉ remitteret̃
b.q̄ȝ.c.ꝛ ꝑ ꝯñs in pñ° eſt.b.calm̄ in gᵘ medio ſimpʳ. ℂ Itē
poſito ꝙ friditas in medieᵗᵉ equalr̃ cōpoſita.b.incipet itē/
di:tūc ſubito ꝑ pōnē eēt vna medietas.b.ſupra gᵐ mediū
frida:ꝛ alia medietas ſūme cal̃a.igit̃ totū tūc corrīderet
gradui remiſſiori medio ꝛ nullā latituᵈⁱⁿᵉ ſubito depēderet:eo
ꝙ friditas ſolū finite veloʳ itēdet̃ ꝛ nō remittet̃ niſi ꝑ itē/
ſionē friditatis. ℂ Et pᵃ ꝯña argʳ ſic.plus tollit iᵃ friditas Pȝle ꝯña multiplici ter ꝓbat.
denoīatione cal̃i q̄ȝ ſi eēt illa medietas maᵗ nō q̄lificata ꝑ
quā nihil extēderet̃. ℂ Silr̃ ſi in iſta medieᵗᵉ eēt friditas
ſūma tolleret totā denoīationē eē calidi.ḡ cū iᵃ medietas 2
īmediate poſt h erit ſupra gᵐ meᵐ friditatis:ſeq̄t̃ ꝙ plus
q̄ȝ medieᵗᵃᵗᵉᵐ illi° denoīationis tollet. ℂ Itē dato oppoſito 3
ſeq̄t̃ iſta ꝯclō ꝙ aliq̄ ſunt duo calida:q̄rū medieᵗᵃᵗᵉˢ pᵉ ſunt
pciſe eque cal̃e:ꝛ alie medieᵗᵃᵗᵉˢ eque fride:ꝛ tñ vnū eſt alio
itēſius ſeu calidi°. Sit nūc vnū tale iſtās in quo medietas
b.eſt frida vt in ṗori caſu:ꝛ totū eſt calm̄ ſupra meᵐ vt po
nit poſitio:ꝛ ſit.c.vnū tale:cui° vna medietas eſt ſūme cali
da ꝛ alia ſimplex frida eque itēſa ſic̃ medietas frida.b.et
ſeq̄t̃ ꝙ.b.eſt in magna ꝓporᵗᵉ calidi°.c.q:.c.eſt calidū ſub
medio gᵘ vl̃ in medio equalr̃ vt pōt argui:eo ꝙ tota fridi/
tas iᵃ ſimplex totā denoīationē īpediret ſi eēt ſūma.ḡ me/
dietas medieᵗᵃᵗᵉᵐ:ꝛ etiā q: ſi ibi nulla eēt friditas ſȝ eēt mā
pᵃ nō q̄lificata:tūc eēt.c.in gradu medio per ꝓargūta.igit̃
nūc corrīdet gradui remiſſiori medio:q: frigiditas aliqḋ
tolleret de ei° denoīatiōe:ꝛ tñ medieᵗᵃᵗᵉˢ fride ſunt eque itē
ſe ꝛ medieᵗᵃᵗᵉˢ calide. ℂ Silr̃ ſeq̄t̃ ꝙ aliq̄ ſunt duo cal̃a:q̄ꝝ 4
vtriuſq̄ȝ eſt vna medietas ſūme cal̃a ꝛ vni° alia medietas
eſt cal̃a ꝛ alia alteri° eſt frida:ꝛ tñ iᵃ ſunt eque cal̃a.ſit vna
medietas.b.ſūma vt ṗus ꝛ alia cōpoſita:ita ꝙ friditas ſit
ſupra gradū meᵐ:ꝛ ſit vna medietas.c.ſūme calida ꝛ alia
nō q̄lificata:ꝛ acq̄rat̃ calitas in medieᵗᵉ iᵃ ſucceſſiue ſtāte
alia medietate ſūma:ꝛ ſeq̄t̃ ꝙ ſic remiſſe cal̃a pōt illa me/
dietas eē ꝙ totū corrīdebit illi ḡdui ſupra meᵐ q̄tūcūq̄ȝ
modicuȝ diſtet a medio:vt tāgebat̃ ṗus.igit̃ ſeq̄t̃ ꝯclō de
b.c. ℂ Ideo forte dī ꝙ ſi vna ps.b.q̄tūcūq̄ȝ modica eēt Riſio
ſūme cal̃a ꝛ reſidua pars nō q̄lificata ſeu nō cal̃a totū eēt
ſūme calm̄:ꝛ ſic vbi vna medietas eſt ſūme calida:ꝛ alia
eq̄lr̃ cōpoſita totū eſt ſūme calm̄. ℂ Cōtra i° ſic arʳ.ex i° Cōtra
pᵒ ſeq̄t̃ ꝙ ſūme calm̄ eſt admixtū cū ſuo ꝯ̄rio. Silr̃ ſeq̄t̃ ꝙ
aliqḋ eſt ſūmū qḋ erit remiſſiuȝ ꝛ nō remittet̃:vl̃ ꝙ aliqḋ
īfinita velocitate aget ꝑ totā horā ad h iſtās terminatā. h
ſic argʳ. Sit.a.ꝑ totū ſūme calm̄ ꝛ incipiat.b.ſūme friduȝ
applicari ad alteꝝ extremū ꝛ ꝓgrediat̃ ſua actio ſucceſſi/
ue:q: tātuȝ pōt eē.a.reſiſtēs ꝙ actio.b.nō ſubito ꝑ illḋ de/
ueniet:vt notū eſt. Signet̃ igit̃ illḋ iſtās in quo actio deue
niet ꝑ totū:ꝛ ſit tūc gradus medius friditatis pciſe vel re/
miſſior ad extreᵐ vbi incipit eē actio:ꝛ ſeq̄t̃ ꝙ in fine totū
erit remiſſiuȝ:q: vndiq̄ȝ erit calitas remiſſa cū qua tūc ex/
tēdet̃ friditas ꝛ nunq̄ȝ ante finē remittet̃:q: ꝑ riſionē ꝯtiᵉ
ante finē erit ſūme calm̄:q: ꝯtiᵉ añ fineȝ erit aliq̄ pars ſū/
ma ꝛ nulla ps frida.igit̃ nunq̄ȝ remittet̃. ℂ Ideo forte dī Riſio
ꝙ īmeᵗᵉ ante finē remittet̃ ſubito a ḡdu ſūmo vſq̄ȝ ad gᵐ
ſub quo tūc erit. ℂ Cōtra.ex iᵒ ſeq̄t̃ zᵃ pars diſiūctiue:q: ſi Cōtra
ſic īfinite velociter īmeᵗᵉ añ finē remittet̃.ꝛ idē eſt arᵐ de
oī iſtāti illius tp̄is:eo ꝙ ad aliquē pūctū tūc erit actio vbi
ante illḋ iſtās nō erit actio:ꝛ ſi ſic īmeᵗᵉ ante q̄dcūq̄ȝ iſtās
datū īfinite veloʳ remittet̃ pars ꝑ quā deueniet actio:ꝛ ſic
īfinite velox erit ꝯtiᵉ remiſſio alicuius ptis:ꝛ ſic ſeq̄t̃ ꝯclō.
ℂ Itē ſeq̄t̃ iᵃ ꝯclō ꝙ aliqḋ eſt ſūme calm̄:ꝛ q̄tūcūq̄ȝ tar/
de incipit itēdi frigiditas per iᵐ ſeu per vnā eius medie/

tatem ſubito diſtaret a gradu ſũmo per certã latitudinẽ.
que tñ nõ videt̃ vera:qꝛ nõ remittet̃ niſi per inductionẽ
fridıtatis que eſt ſolũ finita inductio.Et ꝙ ꝯcluſio ſequat̃
arguit̃ ſic vt ṗus.ſit.b.vnũ mixtũ cuius vna medietas ſit
ſũme calida ⁊ alia equalr̃ cõpoſita ex caliditate ⁊ frigidi/
tate:tũc incipiat frigiditas intẽdi per iᵃᵐ medietatẽ equa/
liter cõpoſitã:⁊ remittat̃ etiã alia medietas vel ſtet:⁊ ſeq/
tur ꝙ.b.eſt ſũmũ per miſſionẽ:⁊ ſubito per certaꝫ latitudi/
nẽ diſtabit a ſũmo:⁊co ꝙ imediate poſt hoc erit medietas
vna eius remiſſe calida vel ſũme calida : ⁊ alia medietas
frigida ſupra mediũ:que friditas aliquã denoiationẽ eſſe
calidi ſufficit ĩpedire.igit̃ ſeq̃t̃ ꝙ imediate poſt h̃ per cer
Rñ° tã latitudinẽ diſtabit.b.a ſũmo.g̃ ſeq̃t̃ cõclo.¶ Si negat̃
vltima ꝯñia:qꝛ tũc erit caliditas imediate frigida que in
Cõtra uabit denoiationẽ calidi.¶ Cõtra.h̃ nõ ĩpediret denoia/
tionẽ frigidi:qꝛ erit remiſſioꝛ ꝙ̃ frigiditas in medietate il
la.g̃ illa nõ innabit ad intẽſionem ſeu denoiationẽ calidi.
z ꝯñia pꝫ.⁊ añs ſilr̃ per põneꝫ.¶ Itẽ ex iᵃ miſſione ſeq̃t̃ ꝙ
pᶜ medietates.a.b.ſunt eque calide ⁊ alie eque fride : ⁊ tñ
a.eſt remiſſius.b.qꝛ ſit de.b.vt ṗus : ⁊ ſit vna medietas.a.
ſũme calida ⁊ alteriꝰ medietatis.a.ſit frigiditas tãta quã/
ta eſt in medietate equalr̃ compoſita.b.ſ.in gradu medio
nõ admixta cuꝫ ſuo ꝯrio:⁊ ĩtẽdat̃ frigiditas ꝯſilr̃ ꝯtiᶜin.a.
ſicut in.b.tunc.a.in ṗnᵒ diſtat a ſũmo:qꝛ vna eiꝰ medietas
eſt frigida:⁊ nullũ eſt ſũme calidũ cuius vna medietas eſt
frigida:qꝛ iᵃ friditas aliq̃d de denoiatiõe totiꝰ ſufficit ĩpe/
dire:qꝛ aliter nõ videret̃ qualr̃ tota.ſ.frigiditas totaꝫ de/
noiationẽ eẽ calidi ĩpediret niſi pars poſſet aliq̃ ptẽꝫ ĩpe/
dire:⁊.a.imediate poſt h̃ per plus diſtabit a gradu ſũmo
ꝙ̃ nũc:qꝛ friditas ĩtẽdet̃ ⁊ nõ caliditas.g̃ imediate poſt h̃
a.p certaꝫ latiᵗᵉꝫ diſtabit a ſũmo:⁊.b.poſt h̃ ꝯtiᶜ erit eque
calidũ cũ.a.qꝛ medietates calide ꝯtiᶜ erũt eque ĩtẽſe:⁊ etiã
medietates fride iuxta põnẽ.vel ſi negat̃ ꝯñia:ſeq̃t̃ ꝙ.a.
erit remiſſius.b.imediate poſt h̃:⁊ tũc hẽbit̃ cõclo:que tñ
eſt oĩno ꝯtra rõnẽ:qꝛ tota caliditas.a.erit eque intẽſa cũ ca/
liditate.b.vel itẽſioꝛ:⁊ tota frigiditas eſt eque ĩtẽſa cũ fri/
giditate.b.vꝫ igit̃ repugnare põni ꝙ vnũ ſit alio intẽſius.
Et ſi dicat̃ ꝙ hec poſitio ſit vera in vniformibus ⁊ nõ in
difformibꝰ ĩſufficiẽs erit iſta poſitio cuꝫ in rebꝰ multa dif/
2ᵐ ꝯñᵗᵉꝫ formia inueniant̃.¶ Itẽ ꝯtra iſtã põnem in ſe arg̃ꝛ:qꝛ ex
hãc poſi illa ſeq̃t̃ ꝙ ſi ſit vnũ calm̃ in gradu medio iter ſũmũ ⁊ me
tionem. diũ:⁊ ſi vtraq̃ q̃litas abſtrahat̃ ab illo mixto:quaꝝ vna
ponat̃ per vnã medietatẽ ⁊ alia per aliã:totũ in fine erit
in triplo remiſſius ꝙ̃ in ṗnᵒ.nã capiat̃ vnũ tale mixtũ:tũc
ſi vna medietas illiꝰ mixti foret diſpoſita iᵒ caliditate:⁊ alia
medietas foret mã pᵒ nõ qualificata,totũ corrñderet in/
tẽſiue gradui medio inter gradũ caliditatis illius medie/
tatis calide ⁊ nõ gradũ caliditatis.⁊ ille gradus ſolum di/
ſtat a nõ gradu per quartã totius latitudinis ⁊ medietatẽ
vnius quarte.igit̃ tũc corrñdebit gradui diſtãti a nõ gra/
du ſoluꝫ per 4.ᵃᵐ ⁊ medietatẽ quarte totius latitudinis.ſi
igit̃ per iᵃᵐ medietatẽ nõ qualificatã extenderet̃ gradus
eque intẽſus frigiditatis ſicut eſt gradus caliditatis extẽ/
ſus per medietatẽ calidã:iᵃ frigiditas totã eius denoiatio
nẽ eſſe calidi tolleret.igit̃ frigiditas ſubtripla 3ᵃᵐ ptẽꝫ in/
tẽſionis tolleret:⁊ iᵃ frigiditas eſt eque ĩtẽſa cũ frigiditate
duiꝰ mixti.igit̃ inducta friditate illiꝰ mixti per mediᵗᵉᵐ nõ
q̃lificatã tolleret 3ᵃᵐ ptẽ iſtiꝰ itenᵉ quã hẽret ſi nõ eẽt fridi/
tas p illã mediᵗᵉᵐ.Sꝫ iam tota ſua ĩtenᵒ diſtat a nõ gradu
ſolũ p 4.ᵃᵐ totiꝰ latiᵗᵉ ⁊ ſemiq̃rtã:⁊ ſemiq̃rta eſt 3ᵃ pars to/
tiꝰ latiᵗᵉ p quã diſtat.a.a nõ gradu vꝫ 3ᵃ pars ſue itenᵗᵉ.g̃
ablata iᵃ ſemiquarta ſolũ diſtabit a nõ gradu p 4.ᵃᵐ totiꝰ
latiᵗᵉ:⁊ p ꝯñs tũc erit in gᵘ meᵒ medieᵗᵉ remiſſioꝛis totius
latiᵗᵉ caliditat:qui g̃dus eſt ſubtriplus ad gᵐ meᵐ medieᵗᵉ
ĩtẽſioꝛis totiꝰ latiᵗᵉ ſub quo eſt illõ mixtũ.g̃ ꝯcluſio vera.



¶ Ex iᵃ ꝯñe ſeq̃t̃ iᵃ ꝯclo ꝙ.a.eſt in triplo intẽſius.b.qõ cõ Corre°.
tinue ṗcıſe in duplo velocius remittet ꝙ̃.b.⁊ tamẽ eque/
cito deueniet.a.ad nõ gradũ,nulla latitudine ſubito dep/
dita nec acquiſita:qꝛ ſit.a.tale mixtũ in medio gradu me/
dietatis intẽſioꝛis totius latitudis caliditatis : ⁊ ſit vna me/
dietas.b.diſpoſita iᵃ caliditate modo ṗdicto : ⁊ alia medie/
tas iᵃ frigiditate:tũc per ṗus ꝓbatũ.a.eſſe in triplo inten/
ſius.b.remittat̃.g̃ coꝝ caliditas ad nõ gradũ eodẽ gradu:⁊
in eodẽ tpe qõ eſſe põt:qꝛ per equalẽ latitudinẽ diſtant a
nõ gradu iſte due caliditates:⁊ ſeq̃t̃ ꝙ.a.ꝯtinue ṗcıſe in du/
plo velocius remittet̃ ꝙ̃.b.qꝛ eodẽ gradu per totum quo
b.per medietatẽ.g̃ in duplo velociꝰ remittet̃.a.ꝙ̃.b.Et ꝙ
equecito deueniãt ad nõ gradũ eẽ calidi arguit̃ ſic.Eque/
cito remittent̃ coꝝ caliditates ad nõ gradũ per caſum : ⁊
etiã equecito remittent̃ coꝝ caliditates ad equalitatẽ ſue
frigiditatis.g̃ equecito deueniẽt ad nõ gradũ eſſe calidi.g̃
ꝯcluſio vera.¶ Illud idẽ ſic ꝓbat̃.Intẽdat̃ friditas vtri/
uſq̃ ad equalitatẽ ſue caliditatis,ſua caliditate nõ remiſſa ad
imaginationẽ eodẽ gradu cõtinue:⁊ ſequit̃ ꝙ.a.in duplo
velocius ꝯtinue remittet̃ ꝙ̃.b.qꝛ ſolũ remittet̃ per intẽſio/
nẽ frigiditatis:⁊ in iſtis eodẽ gradu intẽdent̃ frigiditates
in.a.tñ per totũ:⁊ in.b.per medietatẽ ſolum:g̃.a.in duplo
velocius remittet̃ ꝙ̃.b.⁊ equecito deueniet ad nõ gradũ.
Naꝫ equecito coꝝ frigiditates intẽdent̃ ad eq̃litatẽ cali/
ditatũ correſpõdẽtiũ:quo per eq̃lẽ latitudineꝫ diſtãt ab equa/
litate caꝝ ⁊ eodẽ gradu intẽdent̃.g̃ ſeq̃t̃ ꝯcluſio.¶ Silr̃ 2ᵐ
ſequit̃ iᵃ ꝯcluſio:ꝙ.a.eſt eque intẽſuꝫ cũ.b.⁊ ꝯtinue in du/
plo velocius intẽdetur ꝙ̃.b.vel plus ꝙ̃ in duplo:⁊ in fine
erit.b.in ſexqoctaua ꝓpoꝛᵗᵉ intẽſius.a.hec ꝯclo manifeſte
includit ꝯdictionẽ:⁊ ſequit̃.Nam ſm̃ ꝙ ꝓbat̃.a.eſt in tri
plo intẽſius.b.dato igit̃ ꝙ caliditas in.b.foret in triplo intẽ/
ſioꝛ ꝙ̃ iam eſt ⁊ foret per illã medietatẽ.b.cõſilr̃ ſic nũc:
tũc totũ.b.foret eque intẽſum cuꝫ.a.nã oẽm intẽſionẽ quã
habet.b.habet pp caliditatẽ in iᵃ medieᵗᵉ calida extitẽ.dato
igit̃ ꝙ caliditas foret in triplo intẽſioꝛ in illa medieᵗᵉ cõſilr̃
extẽſa ſicut iaꝫ eſt in triplo plus de itenᵗᵉ ꝯferret:⁊ p ꝯñs
totũ.b.foret in triplo intẽſius ꝙ̃ nũc eſt:⁊.a.eſt in triplo in/
tẽſius.b.g̃ intẽſa caliditate.b.ad triplũ manẽte friditate ſic
iam.b.foret eque intẽſuꝫ cũ.a.Signet̃ g̃ gradus ſũmus ca/
liditatis per.iiij.⁊ ſequit̃ ꝙ caliditas.a.eſt vt tria : ⁊ caliditas
b.ſilr̃.imaginoꝛ g̃ latitudinẽ caliditatis ĩfinitã vltra gra/
dũ iſtũ ſũmuꝫ ſignatũ per.iiij.ſic tñ ꝙ gradus vt.iiij.cõti/
nue erit gradus ſũmus.ponat̃ tũc ꝙ caliditas in.b.intẽdat̃
ad gradũ triplũ ⁊ maneat ꝯtinue ꝯſilr̃ extẽſa ſicut iam:⁊
ſequit̃ ꝙ cũ iaꝫ ſit caliditas.b.vt 3ᵃ ꝙ in fine erit vt nouẽ:
⁊ tũc per ṗus arguta erit.b.eque intẽſuꝫ cũ.a. Ponat̃ g̃ ꝙ
iam ſit iᵒ inſtãs ⁊ ꝙ friditas tã per totũ.a.ꝙ̃ per medieta/
tẽ.b.remittat̃ eodẽ gradu ad nõ gradũ in hora:⁊ eque ve/
lociter intẽdat̃ caliditas in.a.ſicut remittet̃ friditas ⁊ h̃ per
totũ.a.⁊ nõ inducat̃ aliqua caliditas in.b.per remiſſionẽ ſue
friditatis:tunc in fine erit.a.ſũmũ.vꝫ.ſub gradu ſignato p
iiij.⁊ tũc erit vna medietas.b.vt.ix.⁊ alia mã non q̃lifica/
ta.g̃ per cõem poſitionẽ dictaꝫ itenᵒ.b.corrñdebit gradui
medio iter gradũ medietatis calide ſignatũ per.ix.⁊ non
gradu:⁊ gradus iſte medius eſt vt.iiij.⁊ medietas vnita/
tis que

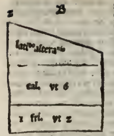
tis que ſe habet ad.iiij.in ꝓportione ſexqoctaua:ꝛ tunc.b.
erit itēſum gradu ſignato per.iiij.ꝛ medietate vnitatis:ꝛ et
a gradu ſignato per.iiij.ģ ꝛc̄.Et ꝙ.a.ɔ̄tinue in duplo velo
cius intēdeť arguo ſic. a.ɔ̄tinue eodē gradu itēdeť per to/
tuʒ quo.b.per medietatē ceteris paribus:ģ in duplo velo
cius ɔ̄tinue intēdeť.a.ꝙ̄.b.ģ ſequiť cōcluſio ꝛc̄.

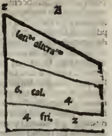
3 3^m pō/ſitionem, **Contra** 3^m poſitionē arguiť ſic.Primo ſigneť vnuʒ
mixtū in quo calitas ſupra frigiditatē dn̄eť
ꝙ ſit.a.ꝛ intēdať calitas ad ſūmuʒ ꝛ remittať friditas ad
nō gradū:tūc infinite remiſſa erit hec frigiditas imediate
ante finē extēſa per idē ſubm per qḋ extēdeť caliditas.ģ
īfinite modice denoiationē illius calitatis īpediret: ꝛ cuʒ
in nulla ꝓportione minus ꝙ̄ gradu ſūmo denoiaret i^a ca/
liditas ſubm per qḋ extēdeť deducta friditate.ģ nūc per
nihil minus imediate ante finē tp̄is in quo erit ſūmū de/
noiabit.a.ſubm per qḋ i^a calitas extēdet:ꝛ per ɔ̄ñs itēſio
a.mixti gradui intēſiori corrñdebit ꝙ̄ eſt gradus medius
toti^9 latitudinis calitatis.ɔ̄ñs tn̄ repugnat pōni:eo ꝙ nul/
la qualitas per plus aliā excedit ꝙ̄ eſt tota latitudo illius
q̄litatis nec per tātū:ꝛ omne mixtū eſt in duplo remiſſiuʒ
ꝙ̄ ſimplex equaľr diſtās a non gradu : ſicut q̄litas dn̄ans
excedit q̄litatē ſubdn̄antē.ģ nullū mixtū pōt eſſe ita intē/
ſum ſicut elemētū exiſtēs ſupra gradū mediū toti^9 latitu/
dinis q̄litatis a qua ideʒ mixtū denoiať.ſequiť ģ poſitio/
2^m arg^m. nē eē falſaʒ.¶ Scdo arguiť ɔ̄tra i^a ſic.Sit.a.vnū mixtū
in quo eſt ꝓportio dupla calitatis ad frigiditatē per totū:
ꝛ ſit.b.hñs per vnā medietatē tātaʒ caliditatē ſicut habet
a.per totū:ꝛ in alia medietate habeat tantā frigiditatē ſi/
cut eſt frigiditas.a.ꝛ ſit vtraqȝ medietas ſimplex.ꝛ argui/
tur tūc ꝙ.b.nō eſt eque intēſum cuʒ.a.qꝛ.b.pōt intēdi an/
teq̄ȝ ſit eque intēſum cuʒ.a.ģ ꝛc̄.Añs pȝ:qꝛ ſi in medietatē
calidā.b.inducať tāta frigiditas ſicut eſt in alia medieta/
te ſtāte calitate:ꝛ in medietateʒ frigidā inducať tāta cali/
ditas ſicut eſt in medietate calida ſtāte eius friditate : tūc
in fine eēt.b.ɔ̄ſiľr oino diſpoſitū cum.a.vt pȝ:eo ꝙ tūc eēt
ɔ̄ſilis caliditas per.a.ſicut per.b.ꝛ etiā cōſilis frigiditas:ꝛ
b.tūc intēderet:ģ.b.nūc eſt remiſſius.a.ɔ̄ñia tenet ꝛ añs
pȝ:qꝛ plus acqret.b.de caliditate ꝙ̄ de friditate.ꝛ b per
ptes equalēs ģ ſequiť ꝙ.b.poſſet intēdi anteq̄ȝ eēt eque in/
tēſum cuʒ.a.ꝛ ſi ſic:igiť nūc.b.eſt remiſſius.a.ſequiť ergo
2^m ptē pōnis illius eē falſam.¶ Itē arguiť in i^o caſu ꝙ
poſitio eſt falſa.nā caliditas.b.que extēdiť per medieta/
tē eius denoiaret illud ſub gradu medio iter iſtā calidita/
teʒ ꝛ nō gradū.ſ.ſub iſto gradu ſub quo eſt i^a frigiditas.ꝛ
b deducta frigiditate vt dr̄:vbi tāgiť de denoiatione q̄li/
tatis extēſe per ptes ſubti.ꝛ i^o ɔ̄cedūt ponentes illā poſi/
tionē.Cum ģ frigiditas.b.ſit ſubdupla ad caliditatē eiuſ/
deʒ:ſequiť ꝙ medietatē illius denoiationis īpediet cū ex/
tēdeť per medietatē ſubti:ꝛ per ɔ̄ſequēs facit totuʒ.b.de/
noiari gradu ſubduplo ad gradū ſub quo erit i^a friditas:
ꝛ.b.eſt remiſſius.a.per hargu.ꝛ:ģ.a.corrñdet gradui intē/
ſiori ꝙ̄ eſt gradus ſubduplus ad friditateʒ:ꝛ frigiditas.a.
eſt equalis exceſſui calitatis.a.ſupra frigiditatē ſuā vt pȝ:
eo ꝙ caliditas eſt dupla ad frigiditatē:ꝛ per ɔ̄ñs corrñde
bit intēſio.a.intēſiori gradui ꝙ̄ eſt gradus ſubduplus ad
illū exceſſum:vel ꝙ̄ ſimplex per tātuʒ diſtās a nō gradu
ꝑ q̄tū calitas excedit friditatē:ꝛ ſi ſic,poſitio eſt falſa ꝛc̄.

4^a pō **Sequitur** igiť poſitio 4ª ponēs ꝙ intēſio mixti at/
tendať ꝛc̄.pro qua arguiť ſic. Sit.a.tale
cuius calitas eſt vt.iiij.ꝛ friditas vt duo:tunc ſi i^a friditas
eēt vt.iiij.ſicut eſt calitas:tūc totā denoiationē eiſ caliditatis
īpediret:qꝛ tūc tāta eēt frigiditas ſicut caliditas ꝛ ecōtra.
Sȝ nūc frigiditas eſt in duplo minor ꝙ̄ tūc eēt:ģ nūc au/
fert medietatē denoiationis caliditatis quā hēet deducta
friditate:ꝛ tūc eēt vt.iiij.ģ nūc eſt intēſum vt duo:ꝛ bina/
rius eſt exceſſus calitatis ſupra friditateʒ.ģ poſitio vera.

ꝛ ɔ̄ſiľr eſt arguendū de omni alio mixto ſicut de iſto.ꝛ ſic
arguiť gñaľr de qualitate extēſa per ſubm qḋ denoiat il/
lo gradu eque intēſo ſicut eſt i^a qualitas deducto ɔ̄rio : vt
ꝑdictū eſt.Et ɔ̄ſiľr dr̄ de frigiditate:ģ quātuʒ ſufficit frigi/
ditas denoiare per tātū rōnabiľr impediet denoiationeʒ
eē calidi.Sit ģ in aliquo mixto frigiditas minor calitate:
ꝛ ſit.a.gradus ſub quo eſt calitas ꝛ.b.ģ ſub quo eſt frigi/
ditas:tūc caliditas denoiaret ſubm ſuū.a.gradu deducta
frigiditate:ꝛ.b.ipm ſufficit īpedire per latitudineʒ corre/
ſpōdētē.b.gradui:qꝛ tātō gradui ſufficeret ſubm ſuū deno
minare.ģ rōne iſtius friditatis auferť de denoiatione ca/
liditatis tāta latitudo ſicut eſt a.b.gradu vſqȝ ad non gra/
duʒ:aliqḋ igiť remanet de denoiatione iſti^9 calitatis:ꝛ ſe/
quiť ſoluʒ ꝙ remanet illḋ per qḋ.a.excedit.b.igiť intēſio
b.mixti corrñdeʒ ſimplici hñti tātā latitudinē per quātaʒ
a.gradus excedit.b.ꝛ iſta latitudo eſt equalis exceſſui ca/
liditatis ſupra friditatē: vt po^r.ģ ſequiť poſitio viľr vera.
¶ Quo etiā ad p^{am} ptē iſtius pōnis argui poterit per hoc
ꝙ pus ſuſtineť:ꝙ.ſ.oīs qualitas eſt eque intēſa ſicut aliq̄
eius pars:ꝛ omne q̄lificatū nō admixtū cum ſuo ɔ̄rio eſt
eque intēſum ſicut aliq̄ eius pars.Calitas igiť tātū po^t quā/
tū aliq̄ eius pars:ꝛ friditas tātū īpedit quātū aliqua eius
pars.igiť quāť^9 eſt exceſſus maxime calitatis ſupra maxi
mam frigiditatē:tāta erit intēſio iſtius mixti.

Cōtra quā pōnē ſic arg^r. Ex iſta ſeqť ꝙ vbicūqȝ intē/ 3 pōnem,
dať mixtū per iten^{em} elīti dn̄antis ꝛ remiſſio/
nē elīti ſubdn̄antis:ꝙ illḋ mixtū in duplo veloci^9 intēdeť
ꝙ̄ ſimp^x in eo exñs:qꝛ eq̄uelo^r remittiť vna q̄litas ſicut alia
itēdiť.igiť in duplo veloci^9 maiorať exceſſus iter iſtas q̄li/
tatēs ꝙ̄ maioreť intēſio q̄li^{tis} itēſioris.ɔ̄ñtia nota eſt:eo ꝙ
rōne iten^{is} q̄litatis dn̄antis eq̄uelo^r maiorať exceſſus ſicut
i^a q̄litas:poſito ꝙ i^a q̄litas ɔ̄ria eēt non remittať.ꝛ rōne re/
miſſionis q̄litatis eq̄ľr maiorať exceſſus ſicut rōne itēſionis
q̄litatis dn̄antis:qꝛ i^a remiſſio illi iten^{ni} eſt eq̄lis.igiť pȝ ꝙ
in duplo veloci^9 maiorať exceſſus dn̄antis ſupra ſubdn̄ans
ꝙ̄ i^a dn̄ans maioreť:ꝛ mixtū eq̄uelo^r iten^r ſicut i^a exceſſus.ģ
ſeqť ɔ̄clo.¶ Cōtra quā ar^r ſic.Ex eq̄li ꝓpor^e itēdiť ſimp^x
ꝛ mixtū:eo ꝙ ex ꝓpor^e ei^9 agētis ad ſibi ɔ̄riū in iſto mixto,
igiť mot^9 erūt eq̄les.ſ.iten^o mixti ꝛ iten^o ſimplicis dn̄antis.
ģ ɔ̄clo falſa ſeqñs ex po^e.igiť poſitio falſa.¶ Itē ex i^a ſeq/ 2^a ɔ̄clo
tur hec ɔ̄ ꝙ.a.nūc eſt remiſſius.b.ꝛ ad oēʒ pūctū vni^9 erit
hēiſſe eq̄lis iten^o ſicut ad pūctū corrñdētē alteri^9 ꝛ eq̄lis acq/
ſitio exceſſus:ꝛ tn̄ in fine erūt eque itēſa.¶ Itē ſeqť ꝙ.a. 3^a ɔ̄clo
eſt eque iten^m cū.b.ꝛ ad oēʒ pūctū.a.ɔ̄ti^s erit eq̄lis itēſio ꝛ
acq̄ſitio exceſſus ſicut ad pūctū corrñdētē.b.ꝛ in fine erit.a.
remiſſiuʒ:ꝛ.b.ſūmū.¶ Itē.a.eſt eque iten^m cū.b.ꝛ ad oēm 4^a
pūctū.a.ɔ̄ti^s erit remiſſior iten^o ꝛ minor acq̄ſitio exceſſus
ꝙ̄ ad pūctū corrñdētē in.b.ꝛ eq̄cito fient ſūma.¶ Itē ad 5^a
oēʒ pūctū.a.erit iten^o tardior ꝙ̄ ad pūctū corrñdētē in.b.
ꝛ in fine erit.a.itēſius.b.ꝛ iam eſt eque iten^m.¶ Oʒ q̄libet
iſtaꝝ repugnet pōni vȝ:qꝛ ſi iten^o mixti attēdať penes ex/
ceſſuʒ ꝛc̄.ꝛ eq̄uelo^r itēdeť ſicut maiorať exceſſus.ſi igiť
eq̄uelo^r maioreť exceſſus in.a.ſicut in.b.ſeqť.a.eq̄uelo^r intē/
diť cū.b.igiť ſi nūc ſit remiſſi^9 ꝙ̄.b.ɔ̄ti^e remanebit remiſ/
ſius.b.ꝛ ſi nūc ſit eque iten^m cū.b.ɔ̄ti^e manebit eque iten^m
cum eo.ꝛ ſi tardius itēdať ſemꝑ erit remiſſius.igiť q̄libet
iſtaꝝ ɔ̄nū eſt falſa.¶ Pro 2^a ɔ̄ne ſic arguiť.Ponať ꝙ ca/ pba^o 2^e ɔ̄nis.
liditas ſūma ſigneť ꝑ octo grā arg^{ti}:ꝛ ſit.b.vniforme cum
calitate vt ſex:ꝛ friditate vt duo : ꝛ ſit calitas.a.vniformi/
ter difformis a 4.to vſqȝ ad ſex:ꝛ friditas vniformiter dif/
formis a duob^9 vſqȝ ad 4.^{or}:ꝛ ſit caliditas intēſi^a.a.exten^a
cuʒ friditate eiuſdē itēſiſſime:ꝛ itēdať.b.mediāte latitu/
dine vniformiter difformi terminata non ad.g^m mediāte
cuius extremo itēſiori acqrať vni extremo.b.caliditas vt
duo:ꝛ remittať friditas equaľr ꝛ extēdať i^a latitudo ɔ̄ſiľr
in.a.vſus extremū itēſius:vbi eſt maxima eius calitas.

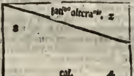




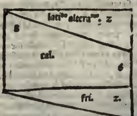
Quo posito seq̃r q̃.a.est remissius.b.q̃z caliditas.a.est vt sex:⁊ friditas vt 4^or:⁊ in.b.cal'itas est vt sex:⁊ friditas vt duo.Et q̃ ad oẽz pũctũ vni^us erit eq̃lis acq̃sitio excessus sic ad pũctũ corr̄idẽtẽ alteri^us pz:q̃z eq̃lis inten^o est cal'itatis ⁊ remissio friditatis.Et q̃ in fine.a.erit eque itẽsuz cũ.b.pz: q̃z tũc tota caliditas.a.erit vt octo:⁊ caliditas.b.silr q̃z est eque itẽsuz sic est aliq̃ ei^us pars:⁊ friditas.a.tũc erit vt duo: ⁊ friditas.b.silr q̃z eque intẽsa sic aliq̃ ei^us pars.igit̃ tũc erit eq̃lis excessus toti^us cal'itatis.a.supra friditatez suã sic caliditas.b.supra suã friditatẽ:⁊ p̃ ɔñs.a.b.tũc erũt eque intẽsa.g̃ seq̃r ista z^a ɔ̃clo. ¶ Pro 3ª ponat̃ vt prius:ex quo igit̃ in fine isti^us tp̃is.a.⁊.b.erũt eque intẽsa labat̃ tp̃s ⁊ sit nunc instãs vlt^m.s.finis in quo cal'itas.b.sit vniformiter difformis ab octo vsq̃ ad sex:⁊ friditas.a.z^bo vsq̃ ad non g^m:⁊ cal'itas.a.ab.viij.vsq̃ ad 4^or vniformiter difformis ⁊ frigiditas vniformis vt z^o:vt manifeste pz.⁊ ponat̃ q̃ per.a. extẽdat̃ ɔ̃silis latitudo alterationis vt prius:⁊ sit extre^m itẽsius v̄sus extre^m remissius:⁊ in.b.silr:⁊ duret p̃ tãtũ tp̃s sicut prius alteratio:⁊ seq̃r q̃ in fine cal'itas.a. erit sũma sicut iaz est:⁊ sua friditas erit vniformiter difformis a z^bo vsq̃ ad nõ g^m:vt pz.igit̃.a.erit tunc remissum.Et seq̃r q̃.b.in fine erit sũmuz:q̃z tũc sua cal'itas erit vt.viij.nõ admixta cum suo ɔ̃rio:⁊ in p̃n^o est eque iten^m cũ.a.q̃z cal'itas vtriusq̃ erat vt sex ⁊ frigiditas vt z^o:⁊ eque velox erit intẽsio ad omnẽ pũctum corr̄idẽtem alteri^us vt pz.ergo sequit̃ ɔ̃clusio.

pbaª 3ª.

B

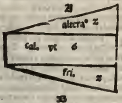


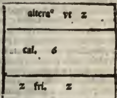
A
B



B

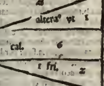
¶ Pro 4^a ɔ̃ne sit caliditas.b.vt sex:et friditas vt duo:et cal'itas.a. vt sex:⁊ friditas vnifor^r diffor^s a duobus vsq̃ ad nõ g^m:⁊ itẽdatur b.cal'itas mediãte vno g̃du mediãte quo fiet sũmũ in hora:⁊ intẽdat̃.a. mediante latitudine vniformiter difformi terminata ad nõ g^m ⁊ ad g^m extensuz p̃.b.ita q̃ non gradus alterationis sit v̄sus nõ g^m friditatis:quo posito sequitur q̃ ad oẽz pũctum.a. erit tardior acq̃sitio excessus q̃z ad pũctum correspõdentẽ in.b,vt ɔ̃stat:⁊ in fine erit.a.summũ:q̃z habebit caliditatẽ summã nõ admixtã cum suo ɔ̃rio:⁊.b.tũc p̃ erit summũ.igit̃ sequit̃ ɔ̃clusio. pbaª 4ª





¶ Pro 5^a ɔ̃ne ponat̃ de.b.vt po^r in p̃ casu:⁊ ponet̃ de.a.q̃ cal'itas sit vt sex:⁊ friditas vnifor^r difformis a duob^us vsq̃ ad vnũ:et alteret̃.a.lati^ne vnifor^r difformi terminata ad g^m subduplũ ad g^m terminãtẽ istã lati^nez alter^nis in.b.⁊ terminet̃ ad nõ g^m v̄sus extremũ:vbi est sua friditas remissior. pbaª 5ª.

Quo posito seq̃r q̃.a. b.sunt eque intẽsa:q̃z cali^tas eoz:⁊ ẽt frigi^tas sunt eque intẽse.⁊ ad oẽm pũctũ.a.erit tardior intẽsio q̃z ad pũctũ corr̄identẽ in.b. q̃z in duplo tardior intẽsio cali^tis ⁊ remissio frigi^tis vt cõstat p̃ casuz:⁊ i fine erũt eque



itẽsa:q̃z cal'itas.b.tũc erit vt octo:⁊ friditas vnifor^r difformis a duob^us vsq̃ ad nõ g^m.igit̃ cal'itas.b.tũc excedet friditatẽ eiusdẽ p̃ sex:⁊ cal'itas in.a.tũc erit vt.vij.⁊ sua frigi^tas vniformis vt vnũ:vt pz p̃ põnẽ:igit̃.a.b.tũc erũt eque itẽsa.igit̃ si lati^do altera^nis extẽsa p̃.a.terminat̃ ad g^m itẽsiorẽ q̃z nũc seq̃r q̃ in fine.a.eẽt itẽsi^us.b.q̃z cal'itas sua tũc esset supra g^m vt septẽ:⁊ friditas vt vnũ:q̃z eque intẽsa sic aliq̃ ei^us pars.ponat̃ igit̃ q̃ alteratio in.a.terminet̃ ad g^m in sexg^o altero itẽsiorẽ q̃z nũc.⁊ seq̃r ɔ̃ manifeste. ¶ Pro istis ɔ̃cedẽda est ɔ̃ p^a.⁊ ɔ̃cedit̃ q̃ ex eq̃li p̃por^ne itẽdit̃ simp^r sicut mixtũ:q̃z ex p̃por^ne agẽtis ad elm̃ũ subdñãs:⁊ tñ tota itẽsio mixti corr̄idebit gradui itẽsiori q̃z iten^o simplicis ⁊ ẽt maiori.vñ mot^us p̃n^r itẽt^us est inductio forẽ p̃pẽ ⁊ expulsio for^e ɔ̃rie:⁊ ex remotiõe vni^us ⁊ inductiõe alteri^us:seq̃r iten^o toti^us mixti.⁊ ideo ista itẽsio mixti nõ est p̃n^r itẽta ab agẽte:p̃p q̃d nõ est incõueniẽs q̃ ab eadẽ p̃por^ne agẽtis ad passũ p̃ueniãt mot^us ineq̃les:dũ tñ vnus ex p̃ itẽto p̃ueniat ⁊ sit p̃ se ⁊ ali^us p̃ accñs:sic pz de circũuolutiõe rote:cui^us vna pars mouet̃ de nec̃itate alia p̃te veloci^us:⁊ tñ idẽ est agens ollũ motuũ.s.vni^us p̃tis ⁊ alteri^us p̃tis p̃ductiuũ:⁊ sic nõ p̃cedit arg^m. ¶ Ad z^am ɔ̃nẽ ɔ̃cedit̃:⁊ ad arg^m in oppo^m fcm̃ q̃d sic ar^r.iten^o mixti attẽdit̃ penes excessuz:g̃ si ad oẽz pũctũ a.eq̃uelo^r maiorat̃ excessus sic ad pũctũ corr̄idẽtẽ.b.seq̃r q̃ p̃cise eq̃uelo^r itẽdet̃.a.sic.b.negat̃ ɔ̃ña:q̃z ab^te nõ valet talis ɔ̃ña:sz cũ tali me^o ad oẽz pũctũ.a.est eq̃lis acq̃sitio excessus supra elm̃ũ subdñans sicut ad pũctũ corr̄idẽtẽ in.b.⁊

Nota
Non inconueniẽs q̃ ab eadem p̃por^e p̃ueniant motus ineq̃les.

in.b.⁊ talis acqſitio exceſſus deficit ad acqſitiōeꝫ iten⁹ in
tali mixto.ꝗ eq̄uelo' itēdet ſicut.b.qḋ nō eſt verū in ꝓpoſi/
to:qꝛ remiſſio frigiditatis in.b.ad pūcta eius intrinſeca nihil faciet
ad toti⁹ frigiditatis remiſſionē iuxta põnē illā recitatā.ſ.ꝙ ois
q̄litas eſt eque itēſa ſicut aliq̄ ei⁹ pars.⁊ ideo ad itēſionē to/
ti⁹.b.ſolū iuuat iten⁹ caliditatis:ſꝫ ad itēſionē.a.iuuat tā intē
ſio caliditatis q̄ꝫ ēt remiſſio frigiditatis:qꝛ tota caliditas eius
maioratur:⁊ ēt tota frigiditas in.a.etiaꝫ remittet.⁊ ꝓ eq̄uelo' ſicut
caliditas.b.maioratur.⁊ ideo in duplo tardi⁹ intēdet.b.q̄ꝫ.a.⁊
ſic nō pcedit argumentum.Cōſilr ſoluit argumentum ɔ̃ 3ᵃᵐ ɔ̃neꝫ:qꝛ in caſu ibidē
poſito tota frigiditas.a.remittet ad nō gradum:⁊ tota frigiditas.b.
nō remittet:vt pdcm̄ eſt.❡ Itē 4ᵃ ɔclo eſt ɔcedēda:qꝛ in
caſu ibidē poſito tota frigiditas.a.terminat ad duo ſub quo gradu
eſt frigiditas in.b.ideo iuxta põnē recitatā tota frigiditas.a.eſt
eq̄lis toti frigiditati.b.⁊ ad extremum illō vbi eſt maxima frigiditas
a.equalr ɔtinue remittet frigiditas ſicut ꝑ totū.b.⁊ ideo lꝫ ad pū/
cta itrinſeca velocius acqrat exceſſus caliditatis ſupra frigidita
tē in.b.q̄ꝫ in.a.ad extremum:tn̄ vbi eſt maxīa ei⁹ frigiditas eq̄uelo'
acqret iſte exceſſus in.a.ſicut in.b.⁊ ſic ēt toti⁹ caliditatis.a.ſupra
totā ei⁹ frigiditatem caliditatis eq̄uelo' acqret iſte exceſſus ſicut toti⁹ caliditatis
b.ſupra frigiditatem:⁊ ſic ſoluit argumentum in oppoſitum qḋ fiebat.❡ 5ᵃ
ɔclo ɔcedit:lꝫ.n.ad oēꝫ pūctū.b.velocius acqrat exceſſus ⁊c.
iſte tn̄ remiſſio frigiditatis ad pūcta.b.nihil ad toti⁹ intēſionē fa
ciet vt di in ɔ̃ne 2ᵃ:iſte tn̄ remiſſio frigiditatis in.a.faciet vt
duo ⁊c.qꝛ in.a.ɔtinue eſt remiſſio maxime ei⁹ frigiditatis:⁊ ſic q̄ꝫ/
uis tardior ſit acqſitio exceſſus in.a.q̄ꝫ in.b.tota tn̄ intēſio
exceſſus in.a.ad toti⁹ intēſionē faciet:⁊ ſic non faciet in.b.
vbi erit maxima acqſitio talis exceſſus.❡ Oēs iſte ɔ̃ce/
6ᵃ ɔclo dēde ſunt imaginarie ⁊ negent de facto.naꝫ in oīb⁹ caſib⁹
iſtis ponit cū eq̄li caliditate ineq̄les frigiditates extēdi.❡ Itē
ex illa põne ſeqꝛ ꝙ.a.b.ſunt equalr calida:q̄rū caliditates
ſunt eq̄les:⁊ tn̄ ad oēꝫ pūctū.b.eſt maior exceſſus caliditatis
ſupra frigiditatē q̄ꝫ ad aliquē pūctū in.a.vel ſeqꝛ ꝙ.b.eſt
itēſius.a.⁊ tn̄ in nulla ꝓportione eſt itēſi⁹.Utraq; illaꝝ ɔ̃nū eſt
negāda.Pria.n.repugnat põni.Si eiꝫ.a.b.ſunt eque itēſa
⁊ ſue caliditates ſilr:ſeqꝛ ꝙ tota frigiditas.a.eſt eq̄lis toti frigi
ditati.b.capiat igit pūct⁹ in.b.vbi eſt maxīa ei⁹ caliditas:vel
tūc ibi eſt maxīa ei⁹ frigiditas:vel nō.Si ſic:igit nō ꝑ totū.b.
eſt maior exceſſus caliditatis ſupra frigiditatem q̄ꝫ ꝑ totuꝫ.a.vel ad
aliquē pūctū.a.Si vo nō ſit ibi maxima ei⁹ frigiditas capiat
pūct⁹ ad quē eſt maxīa ei⁹ frigiditas:tūc ſi ibi ſit maxīa ei⁹ ca
liditas:ſeqꝛ ꝙ ad illū nō ſit maior exceſſus caliditatis ſupra
frigiditatē q̄ꝫ ad aliquē pūctū.a.⁊ ſi ibideꝫ ſit minor caliditas
q̄ꝫ maxima:ita ꝙ maxīa caliditas nō ſit ad illū punctū vbi
eſt maxīa frigiditas.a.ſeqꝛ nō ad illū pūctū vbi eſt maxīa
frigiditas.b.eē maiorē exceſſuꝫ q̄ꝫ ad aliquē pūctū in.a.⁊ ꝑ
ɔñs nō ad oēꝫ pūctū ⁊c.ꝗ ſeqꝛ ɔ̃nē illā repugnare põni:⁊
alia pars illi⁹ diſiūctiue eſt oīno ipoſſibilis:ex q̄ vtrūq; illoꝝ.ſ.
a.⁊.b.eſt finite iten⁹.Et ꝙ iſta ɔclo ſequat ex põne argr ſic.
Ponat ꝙ.a.ſit vnū vniforiter calidum ꝑ totū mixtū ex caliditate
⁊ frigiditate:⁊ ſit.c.vnū corp⁹ colūnare ⁊ capio corp⁹ itercептū
iter duas lineas circūgyrātes oēs ptes ꝓportionales.c.qḋ ſit.b.⁊
hēat.b.tātā caliditateꝫ ꝑ totū vniformē ſicut hꝫ.a.⁊ ſit frigiditas
b.difformiter terminata in extremo remiſſiori ad gradum remiſſiorē
q̄ꝫ eſt gradus frigiditatis.a.⁊ in alio extremo ad gradum frigiditatis.a.⁊ po
nat ꝙ in extremo finito.b.ſit extremum remiſſius ſue frigiditatis alio
extremo in infinitum pcedēte:quo poſito ſeqꝛ.a.b.eē eque itēſa:
qꝛ caliditates ſunt eque itēſe.ſilr frigiditates iuxta illā põnē:eo
ꝙ ois q̄litas eſt eque itēſa ſicut aliq̄ pars eiuſdē.Et ꝙ ad
oēꝫ pūctū.b.ſit maior exceſſus caliditatis ſupra frigiditatem q̄ꝫ ad
aliquē pūctū.a.pꝫ:eo ꝙ ad oēꝫ pūctū.b.eſt tāta caliditas ſicut
ad aliquē pūctū.a.⁊ minor frigiditas:qꝛ ad oēꝫ pūctū.b.eſt fri/
giditas citra extremum itēſi⁹ toti⁹ frigiditatis:vt ponit in caſu.igit
7ᵃ ɔclo ſeqꝛ ɔclo.❡ Itē ſeqꝛ ex põne ꝙ vbicūq; ſunt aliq̄ duo ⁊
ad oēꝫ pūctū vni⁹ eſt tāt⁹ exceſſus caliditatis ſupra frigiditatem

ſicut ad pūctū corrñdētē alteri⁹ vel ad aliquē pūctū alteri⁹.
Et iſta duo ſint eque itēſa:⁊ ꝙ ſeqꝛ ſatis appet ex põne.
⁊ ꝙ nō ſit vera argr ſic.Sit.a.vt prius ⁊.b.talis pars corpea
vt prius:ita tn̄ ꝙ primum pedale.b.ſit ɔſilr diſpoſitū in toto ſicut.a.
⁊ ſit frigiditas ſcdi pedalis.b.in dupl⁹ itēſior q̄ꝫ in primo pedali:⁊ in 3ᵒ
pedali in duplo itēſior q̄ꝫ in 2ᵒ:⁊ ſic in infinitum:maneat tn̄ ad
oēꝫ pūctū vni⁹ tāt⁹ exceſſus ſicut ad aliquē pūctū alteri⁹:⁊ in
oī pedali ſicut in primo.quo poſito ſeqꝛ ꝙ ad oēm pūctū.b.ſit tā/
tus exceſſus ſicut ad aliquē pūctū.a.Et ꝙ iſta nō ſūt equalr ca
lida pꝫ:qꝛ.b.nō eſt calidum eodē gradu cū.a.cū frigiditas.b.ſit ifi/
nita ⁊ caliditas ɔſilr:⁊ nulla caliditas pōt excedē frigiditatē ifi
nitā.❡ Ideo forte pro iſtis duab⁹ ɔ̃nib⁹ di ꝙ.b.terminat Rñ
ſcd̄m vtrūq; extremum:⁊ ſic ad pūctū terminātē.b.in extremo
vbi eſt maxīa ei⁹ frigiditas nō eſt maior exceſſus ⁊c.vt argr
in ɔ̃ne 6ᵃ:nec ad iſtū pūctū in ɔ̃ne 7ᵃ eſt tāt⁹ exceſſus ſicut
in.a.qꝛ ibi nullus eſt exceſſus.❡ Cōtra ꝓ argr ſic.Nō in/ Cōtra
cludit ɔdictiōeꝫ.b.rectificari nullā q̄ntitatē acqrēdo vt cō
ſtat:⁊ ſi.b.rectificet includit ɔdictionē ipm ſcd̄m vtrūq; ei⁹
extremum terminari:qꝛ tūc nō eēt ifinite lōgū ⁊ eēt ifinite lō/
gum ſicut nūc eſt:qꝛ nullā q̄ntitatē acqreret ſeu deꝑderet.
igit nō eſt verū.b.ſcd̄m vtrūq; ei⁹ extremū nūc terminari.
❡ Pro iſtis ɔcedēda eſt 6ᵃ ɔclo.Si tn̄.b.ſcd̄m vtrūq; eius 6ᵃ ɔclo
extremum terminaret ita ꝙ eēt finitū optime ſeqꝛ illā ɔ̃nem
põni repugnare:qꝛ tunc ſeqꝛ ꝙ vbi eēt maxīa frigiditas.b.
ꝙ ibi nō eēt maior exceſſus caliditatis.b.ſupra frigiditatem q̄ꝫ
ad aliquē pūctū.a.ſicut ꝓbat argumentum ibi factum:qꝛ tn̄ nullus eſt
pūct⁹ vbi eſt maxīa ei⁹ frigiditas.ideo argumentum nō pcedit.Silr
dicimus ad 7ᵃᵐ ɔ̃nē ipaꝫ negādo:tn̄ ſi aliqs pūct⁹ eēt vlti/
mus vbi eſt maxima frigiditas:bn̄ ſeqret ɔclo.❡ Seqꝛ 8ᵃ ɔclo
ēt ex iſta põne ꝙ prima pars ꝓportionalis eſt aliqualr intēſa:⁊ 2ᵃ in
duplo itēſior:⁊ ſic in infinitum:⁊ tn̄ totū.a.nō eſt itēſum vt ſit prima
pars ꝓportionalis aliqualr calida:⁊ ſit ibi ꝓportio dupla caliditatis
ad frigiditatē:⁊ in 2ᵃ pte ꝓportionali ſit caliditas in duplo itēſior
q̄ꝫ in prima ⁊ in 3ᵃ in duplo itēſior q̄ꝫ in 2ᵃ:⁊ ſic in infinitum.⁊ ꝓpor/
tionabilr ſicut in aliq̄ pte caliditas eſt intēſior ita ſit frigi
ditas intēſior:ita ꝙ in omni pte ꝓportionali poſteriori ſit in du
plo intēſior caliditas q̄ꝫ in pte imediate pcedēte:⁊ ſic etiā
ſit de frigiditate.Et pꝫ ꝙ 2ᵃ pars ꝓportionalis eſt in duplo ca/
lidior prima:qꝛ caliditas ſcde ptis eſt in duplo intēſior q̄ꝫ cali/
ditas prime ptis:⁊ frigiditas ſua eſt in duplo intēſior q̄ꝫ frigi
ditas prime:igit exceſſus caliditatis ſcde ptis ꝓportionalis ſu/
pra ſuā frigiditatē eſt in duplo intēſior q̄ꝫ exceſſus calidi/
tatis ſupra frigiditatē prime ptis ꝓportionalis:eo ꝙ inter ter/ Regula ꝓportionū.
minos duplos ꝓportionales eſt in duplo maior exceſſus
q̄ꝫ iter terminos ſubduplos cōſilr ꝓportionales vt cōſtat
intuēti:⁊ ſic erit 3ᵃ pars ꝓportionalis in duplo intēſior 2ᵃ:
⁊ ſic in infinitum.igit ſeqꝛ ɔclo:qꝛ tā tota caliditas q̄ꝫ etiā frigi
ditas eſt ifinita.igit ɔcedēda eſt ɔcluſio imaginādo ꝙ cū
q̄libet intēſiori caliditate extendat frigiditas intēſior ⁊c.
Multa alia ſophiſmata poſſunt fieri que cōſiderato quantuꝫ
acquiſitio exceſſus ad puncta intrinſeca ad totius intēſio/
nem conferat ſatis faciliter ſoluuntur.

Sequitur ꝗ 2ᵃ pars quarte põnis,ponēs ꝙ intēſio 2ᵃ pars 4ᵉ põnis.
mixti ſeqꝛ exceſſuꝫ caliditatis ſupra frigi/
ditatē nō ſimpliciter:ſed capto gradu cui corrñderet denoīatio
totius ſubiecti:ſi per ſe eēt q̄litas illa ⁊ gradu quo denoīaret
alia q̄litas ideꝫ ſubiectum ſi iſta eēt per ſe poſita:⁊ nūc penes ex/
ceſſum vni⁹ talis gradus ſupra aliū attēdit toti⁹ mixti in/
tēſio.ſi.n.vna qualitas ꝑ ſe tāntū denoīaret ſicut alia:totā
denoīatiōeꝫ alteri⁹ q̄litatis ipediret.Si igit talis gradus
denoīationis vnius ſit ſubduplus ad aliū:medietatē talis
denoīatiōis ipedit:⁊ ſic ꝓportionabilr de alijs ptib⁹ iſtius
denoīatiōis.❡ Cōtra opionē iſtā pñt reduci prima ɔclo ⁊ 6ᵃ ɔ̃ põnem.
⁊ 7ᵃ ⁊ 8ᵃ reducte ɔtra põnem primā.Pro prima ponat caſus
ibi poſit⁹ ⁊ ſoluat vt prius.Itē pro 6ᵃ ⁊ 7ᵃ ɔ̃nib⁹ ponat ca/

ſus ibi poſit9 q ſit.b.corpus infinitũ:qꝛ iuxta hãc põnem tota frigiditas corrñdebit gradui in infi^m ꝓcedẽti.ꝛ ideo tota frigiditas.b.erit tãta ſicut tota caliditas.a.ꝛ ideo tot9 exceſſus cal'itatis.b.ſupra ſuã frigiditatẽ erit ꝑciſe eq̃lis toti exceſſui cal'itatis.a.ſupra ſuã frigiditatẽ:ꝛ ſic tota in/tenſio.b.corrñdebit toti intẽſioni.a.ꝛ ideo ꝯcedẽda eſt 6a ꝯcl'o.ꝛ ſoluit arg^m in oppo^m vt ꝑus.¶ Silr 7a ꝯcluſio eſt negãda:eo q tota caliditas.b.eſt ĩfinita ꝛ etiã frigiditas.ſi/tñ eẽt pũct9 vltimus hñs maximã cal'itatẽ optime vale/ret arg^m:ſed ſic nõ eſt hic vt ꝑdictũ.¶ Pro 8a ꝯne ponat caſus ꝑ poſit9:ꝛ ꝯcedit ꝯcl'o. Jtẽ ex hac põne ſeqt q aliqd eſt ĩfinitũ:cuius ſolũ pars finita eſt calida:ꝛ totũ reſiduũ eſt frigidũ:ꝛ tñ totũ eſt calidũ. Silr aliqua ſunt duo ꝯſilr diſpoſita:quoꝝ vnũ eſt calidũ ꝛ aliud frigidũ.Silr aliqd eſt frigidũ:cui9 quelibet pars terminata ad extremũ vnũ eſt ĩfinite calida.¶ Cõtra p^am ſic arg'.Si infinita pars ſit frida:igit tãtũ tollet i^a friditas ſicut aliq̃ cal'itas ĩfinita po/terit toti ꝯferre extẽſa per ptẽ finitã:qꝛ in ĩfi^m plus ĩpedit q̃ aliq̃ caliditas finita põt ꝯferre extenſa per ptẽ finitã.ḡ ſi talis caliditas ĩfinita vel finita ſit extẽſa per ptẽ finitã totũ ab i^a cal'itate nõ poterit denoiari exiſtẽte friditate ali/quãta per totã ptẽ reſiduã.¶ Silr arguit ꝯtra 2^am ꝯnẽ. Si.n.aliq̃ ſint duo ꝯſilr diſpoſita:qua rõne vnũ eſt cal'm: eadẽ rõne ꝛ reliquũ:qꝛ nulla põt poni diuerſitas iter i^a.et ſi vnũ ſit frigidũ reliquũ eſt frigidũ.Si igit vnũ ſit fridũ ꝛ reliquũ ſit calidũ:ſeqt q vtrũq ꝫ eſt calidũ ꝛ frigidũ.ꝯñs eſt ĩpoſſibile:ḡ ꝛ añs. ¶ Jtẽ cõtra 3^m.Si.n.quelibet pars terminata ad vnũ extremũ ſit infinite calida totũ nõ po/terit q̃uis mõ a frigiditate denoiari:qꝛ tãtũ tolleret iſta ca/liditas quãtũ põt alia frigiditas denoiare.igit ꝯcl'o falſa.

p^o ꝯ de/ducit. ¶ Oꝫ tñ ille ꝯnes ſequant arguit ſic. Sit.a.tale cui9 vna medietas ſit ſũme calida ꝯtinue ꝛ alia remiſſe frigida.vꝫ. in gradu medio:ꝛ.b.vnũ aliud cuius vna medietas ſit fri/gida in gradu medio:ꝛ alia cal'a in gradu remiſſiori:ima/ginoꝛ tũc latitudinẽ caliditatis eẽ infinitã ꝛ rareſiant me/dietates frigide in ĩfinitũ illoꝝ.ſ.a.b.ꝛ intẽdant medieta/tes calide:ita q.a.b.nec intẽdant nec remittant: ſed ma/neãt ꝯtinue eque itẽſa ſicut nũc ſunt ꝑciſe q ſatis eſt ima/ginabile poſita latitudine cal'itatis ĩfinita:eo q tantũ põt acqri de intẽſione caliditatis per intẽſionẽ cal'itatis quã/tũ auferret per rarefactionẽ ptis frigide:tunc in fine erit a.calidũ ſicut nũc eſt:ꝛ tũc erit ſolũ finita pars.ꝛ ſm ſe to/ta calidã ꝛ totũ reſiduũ frigidũ.ḡ ſequit ꝯcluſio p^a. ¶ Et

2° 2a ꝯcluſio ſequit in eodẽ caſu:qꝛ.a.tũc erit calidũ ꝛ.b.fri/gidũ ſicut nũc eſt per caſum:ꝛ tũc erũt.a.b.cõſilr diſpoſi/ta.naꝫ equales ptes.a.b.tũc erũt ſm ſe totũ calide:poſito q in ꝑn9 fuerũt.a.b.equalia:ꝛ ille ptes tũc erũt eque intẽ/ſe calide:qꝛ ĩfinite calide:ꝛ alie ptes.a.b.tũc erũt equales ſub eodẽ gradu friditatis:qꝛ iſte ptes erũt ĩfinite q̃titati/ue:igit tũc.a.b.erũt ꝯſilr diſpoſita.igit ꝛc.Ex h ſequit q nõ qõlibet infinitũ eſt eque intẽſum cũ gradu in infinitũ ꝓcedẽte.¶ Tertia ꝯcluſio arguit in eodẽ caſu. Nã queli/

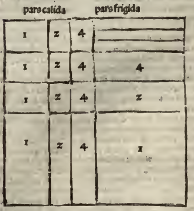
3° bet pars.b.terminata ad extremũ eius finitũ/erit infinite calida in fine:qꝛ quelibꝫ talis pars eſt finita finite hñs de friditate ꝛ infi^m de cal'itate:ꝛ per ꝑdicta caliditas infinita per ptẽ cuiuſlibet finiti extẽſaꝫ deducto ꝯrio infinite totũ denoiaret.cũ igit ĩpedimẽtũ ſit totũ finitũ ĩfinite denoia/bit.vel ſic tũc eẽt cuiuſlibet talis ptis exceſſus cal'itatis ſu/pra friditatẽ infinit9:qꝛ cal'itas infinita ꝛ friditas ſoluꝫ fi/nita per ptẽ finitaꝫ extẽſam:igit tũc erit q̃libet talis pars finite calida ꝛ totũ tũc erit nõ calidũ:vt argutuꝫ eſt:qꝛ tũc

Reſpõſio totũ erit fridũ:vt apparet in caſu.¶ Jdeo forte dĩ ꝯcedẽ/do ꝯnes de imaginatiõe:ꝛ cã eſt q pars finita ſub g^o fini/to tãtũ addit de iten^e re^n toti9 ĩfiniti in caſu ſicut pars ĩfinita ſub gradu finito ꝛ in caſu plus.ꝛ ideo ſm imaginationem ꝯnes ſunt ꝯcedẽde in caſu:tñ vbi pars i^a finita eſt calida gradu ſolũ finito ꝛ reſiduũ fridũ totũ tũc erit fridũ illo g^o ſub quo eſt pars illa infi^ta frida ꝑ totũ vel i^o gradu ad quẽ terminat in extremo ĩfinito ſi ſit diffoꝛme.¶ Cõtra iſtaꝫ Cõtra reſpõſionẽ arguit.ĩpoſe eſt ponere caſum aliquẽ ex q̃ cal'itas in.a.tollit totã denoiatiõeꝫ friditatis:ꝛ cal'itas.b.eſt ꝑciſe tãta ſicut cal'itas in.a.ꝛ friditas.b.eſt ꝑciſe tanta ſicut friditas in.a.gn caliditas in.b.tollat totã denoiatiõeꝫ ei9 friditatis in cõparatione ad totũ.b.qualr'cũq ꝫ qs dicat ſe poſſe h ima/ginari:qꝛ i^am imaginatiõeꝫ ĩpoſe eſt ꝓbare.¶ Jtẽ cal'itas 2 in.a.nõ ſufficit ſub aliq̃ gradu denoiare.a.deducta ſua fri/giditate:vt dictũ eſt:vbi tãgit qualr extẽſa q̃litas per ptẽ ſubiecti totuꝫ illud ſubm denoiat:qꝛ dato i^o ſeqt q forẽt duo ꝯſilr diſpoſita:q̃rũ vnũ foret alio calidi9 vt ibi argutũ eſt. ꝯñs falſuꝫ.ſeqt igit q i^a caliditas.a.deducta ſua friditate/totũ.a.nõ ſufficeret denoiare:ꝛ hec friditas aliq̃ ḡdu ſuffi/ceret denoiare i^o deducta i^a cal'itate.igit hec caliditas per nullã latitudinẽ ſufficit denoiatiõeꝫ illi9 friditatis ĩpedire. ꝯña iuxta illã eãdẽ põneꝫ pꝫ:qꝛ ponit q denoiatio mixti attẽdit penes acceſſum denoiatiõis illi9 q̃litatis:ſi ꝑ ſe eẽt ad denoiatiõeꝫ alteri9 ꝑ ſe exiſtis.tenet ḡ ꝯña iuxta põnẽ. ꝛ añs eſt ꝓbatũ.igit ꝯñs.¶ Cũ igit hec friditas gra arg^ti vniformis totuꝫ ſubm denoiaret gradu ſuo ſi per ſe eſſet: igit nõ obſtãte i^a cal'itate infi^ta ꝑ ptẽ illã finitã.a.extẽſam totũ.a.erit frigidũ.igit reſpõſio i^a falſa ꝛ repugnãs põni iſti. ¶ Jdeo aliter ꝛ ſecuri9 rñdet negãdo duas p^as ꝯnes:ꝛ cõ/ 8ª ꝯcl'o cedẽdo 3^am:ꝛ ad caſum admittit totũ vſq ꝫ ibi:cũ ponit q medie^tes fride rareſiãt in infi^m:ꝛ medietates calide itẽdã/tur:ſic q ꝯti^e maneat vtrũq ꝫ iſtoꝝ eque inten^m ſicut nũc eſt. ꝛ dĩ q h eſt poſſibile de oĩ inſtãti citra finẽ ſꝫ nõ pro fine: qꝛ iſta infi^ta acq̃ſitio q̃titatis imediate ante finẽ ſubito to/tã denoiatiõeꝫ iſti9 calidi tollet:vt ꝑdictũ eſt.ꝛ ideo in ca/ſu iſto ſeqt q in fine tã.a.q̃ꝫ etiã.b.erit fridũ i^o gradu quo pars ĩfinita erit frida:eo q cal'itas i^a denoiationẽ frigidi nõ ſufficiet ĩpedire:ꝛ ſic admittit q pro q̃cũq ꝫ inſtãti ante finẽ erit.a.eque iten^m ſicut nũc eſt:ꝛ dĩ q imediate ante finẽ totã denoiatiõeꝫ eẽ calidi deꝑdet ꝛ acqret tãtã denoiatio/nẽ fridi per quãtũ iſta friditas ſufficit denoiare illud totũ i^a cal'itate deducta.ꝛ admittit ſilr q pro oĩ inſtãti citra fi/nẽ erit.b.eque inten^m ſicut nũc eſt:ꝛ imediate ante finẽ rõne iſti9 rarefactiõis ſubito intẽdet a gradu quo nũc denoiat vſq ꝫ ad g^m iſti9 frigi^tis:ꝛ ita nec p^a nec 2ª ꝯcl'o ſeqt que ſunt 5^a ꝛ 6ª ꝯtra hãc põnem.¶ Sed 3ª iſtaꝝ eſt ꝯcedẽda ſicut arg^m factũ ꝓbat capto tali infinito:qꝛ totũ eſt frigidũ:vt dic/tũ eſt.ꝛ tñ quelibet pars terminata ad extremũ finitum eſt ĩfinite calida.ꝛ negat ꝯña:q̃libet talis pars eſt infinite calida.igit nulla friditas poterit totũ denoiare.ſꝫ bñ ſeq/ret ſi totũ eẽt finitũ. vñ ꝯnes i^e due ꝑrime nõ ſunt oĩno in imaginabiles niſi ponẽdo vnũ infi^m alio ĩfinito maiuſ:ꝛ lꝫ h ponat qõ eſt irrõnabile non poterit aſſignari ratio pro i^a 6^a ꝯ^e.¶ Aliqõ eſt cal'm vnifor^e ꝑ totũ qõ ꝑ ſolã rarefa/ 8ª ꝯcl'o ctionẽ fiet nõ cal'm vel ĩfinite remiſſe cal'm.¶ Aliq̃ ſunt 9ª ꝯcl'o vnifor^r ꝛ eque iten^e:q̃rũ vnũ per rarefactionẽ põt remitti ad nõ g^m:ꝛ aliud nõ põt remitti ad aliquẽ g^m ꝑ aliquã ra/refactionẽ.¶ Cõtra p^am ſic arg'.Si totũ ſit vnifor^r calidũ q̃tũcũq ꝫ rareſiat ſemꝑ manebit vnifor^r calidũ:qꝛ ad oẽꝫ pũctũ remanebit ꝯſilis qualitas ſicut eſt ꝑhabita.Jtem ſi duo ſint vniformia nõ eſt maioꝛ ratio q̃re vnũ põt remit/ti ꝑ rarefactionẽ magis q̃ꝫ aliud.igit vtraq ꝫ ꝯcl'o eſt falſa. ¶ Pro p^a ꝯne arg' ſic.Sit.a.ſubm finitũ ꝑ qõ extẽdat la/titudo friditatis ĩfinita:corrñdeat tñ gradui ſolũ finito:vt ſic extẽdit.ꝛ ſit ad oẽm pũctũ gradus intẽſioꝛ cal'itatis q̃ꝫ friditatis:ita q ſit vni^s exceſſus cal'itatis ſupra friditateꝫ per.a.ita q totũ ſit vnifor^r calidũ ꝛ rareſiat extremo vbi friditas eſt remiſſioꝛ gceſcẽte in ĩfi^m:ita q iſta friditas cor/

rñdebit

rñdebit gradui infinito rõne extenſionis facte per rarefa/
ctionẽ vt ꝓbaᷣ eē poſē vbi tangiᷣ de denoĩationib⁹ ſim/
pliciũ corpoꝝ in ɔ͛ 2ª: tũc ꝑ iſtã rarefactiõez .a. vniᷣ calm
remitteᷣ ad nõ gᵐ: qꝛ hébit in fine friditatẽ infinitã ꝑ ptẽ
infinitã qua nulla calitas poterit plus denoiare. ğ ſequiᷣ
iſta ɔclõ octaua. ℂ Pro nona capiaᷣ vnũ vni͛ ꝑ totum 1º
gº vni͛ caliditatis cui corrñdet tota intenſio .a. mixti qḋ vni͛
ſit .b. ꝛ ſeqᷣ ꝙ .a.b. ſunt vniformia ꝛ eque intẽſa: ꝛ .a. põt re
mitti ad nõ gᵐ per rarefactiõez vt arguĩ eſt: ꝛ .b. non põt
aliqñ remitti ꝑ rarefactiõez: qꝛ ſua q̃litas eſt oĩo vnifoꝛᵐ.
igiᷣ ꝑ rarefactiõez remitti nõ poterit quouis mõ: ideo ſe/
quũtur ɔ̃nes q̃ de imaginatiõe ſunt ɔcedẽde. ℂ Et ad arᵐ
in oppᵐ p̃me ɔ̃nis ɔcediᷣ ad oẽm punctũ in .a. manere eã/
dez q̃litatẽ que nũc eſt ibi. ꝛ negaᷣ ɔña qñ ɔcludiᷣ ꝙ non
in infiᵐ remitteᷣ vel ſi meli⁹ ſic arᷣ. Ad oẽm punctũ mane/
bit ɔtinue eadẽ calitas ꝛ friditas que nunc ſunt ibi ex quo
erit ſoluz rarefactio ſubti. igiᷣ ad oẽm punctũ ɔtinue ma/
nebit idez vel eq̃lis exceſſus ſicut nũc eſt ad eũdẽ: ꝛ ꝑ ɔñs
ſi nũc ſit vniᷣ cal'z ɔtinue ita erit. negeᷣ ɔña: qꝛ lz ad oẽm
punctũ erit eq̃lis exceſſus ſicut nũc eſt ad eũdẽ: ꝛ friditas
eq̃lis rõne tñ difformis rarefactiõis ĩfinito gradui tota fri
giditas caĺhe͛͛ corrñdebit: ꝛ ideo totũ tũc nõ erit calm: qꝛ
nulla calitas põt plus denoiare q̃ꝫ iſta friditas tota tollet:
ꝛ ideo nõ ꝓcedit argᵐ. ℂ Ad argᵐ ɔ̃ ɔ̃nez nonã qñ arᷣ ſic.
a.b. ſunt eque intẽſa. ğ nõ eſt maioꝛ rõ ꝛc̃. negaᷣ ɔña: quia
vni⁹ calitas eſt tota difformis ꝛ ẽt tota friditas que per di
uerſaz rarefactionẽ gradib⁹ diuerſis facile poterit corrñ/
dere ꝛ in alio eſt tota calitas vniformis que ſi in infiᵐ ra/
refieret nunq̃ꝫ põt gradui intenᷣ corrñdere nec remiſſiori
vt ſatis pꝫ: qꝛ ſempꝫ in oĩb⁹ ptib⁹ foret eq̃lis calitas ſicut nũc
eſt in aliq̃ pte: que diuerſitas pro ſolõne ſufficiat argumẽti.
10ª ɔ̃ ℂ A. nũc eſt cal'z qḋ nec intẽdeᷣ nec remitteᷣ: ꝛ tñ in fine
11ª ɔ̃ erit nõ cal'z. ℂ Silr .a. nũc eſt ſoluz finite cal'z vel nõ cal'z
ꝛ nũq̃ꝫ intẽdeᷣ nec remitteᷣ: ꝛ tñ in fine erit infinite calm.
ℂ Cõtra p̃mã iſtaꝝ. Si .a. nũc ſit cal'z ꝛ nec intẽdeᷣ nec re
mitteᷣ: ğ ɔtinue erit eque intẽſuz ſicut nũc eſt: ꝛ ꝑ ɔñs non
in fine erit nõ calm. ℂ Conſilr arᷣ ɔ̃ 2ᵃᵐ iſtaꝝ. Si enim .a.
nũc eſt ſoluz finite cal'z vel nõ calm: ꝛ ɔtinue nec intendeᷣ
nec remitteᷣ: ſempꝫ erit eque intẽſuz ſicut nũc eſt vel nõ ca
lidũ: ꝛ ꝑ ɔñs nõ in ifiᵐ intẽdeᷣ. ℂ Oꝛ tñ iſte ɔ̃nes ſequãᷣ
arᷣ ſic. Sit .a. vniᵐ diuiſuz in ptes ꝓpoꝛˡᵉˢ: cui⁹ p̃ª ps ꝓpoꝛ/
tionalis ſit aliq̃lr calida: ꝛ 2ª in duplo calioꝛ q̃ꝫ p̃ª: ꝛ 3ª in
duplo fridioꝛ q̃ꝫ 2ª cal'a. ꝛ ſit 4ª in duplo calioꝛ q̃ꝫ 3ª eſt fri
gida. ꝛ 5ª in duplo calioꝛ q̃ꝫ 4ª. ꝛ ſexta in du° fridioꝛ q̃ꝫ eſt
qnta cal'a ꝛ ſic in ifiᵐ: ita ꝙ ſempꝫ oĩs ps ſicut eſt minoꝛ p̃ª:
ita ſit iª intẽſioꝛ ꝛ ſint ſempꝫ due ptes imeᵗᵉ calide icipiẽdo
a p̃ª ꝛ 2ª ꝛ ſit 3ª ps que .ſ. eſt imediata illis frida ſic .iij. vi.
ix. xij. xv. ꝛ ſic in ifiᵐ. Oꝛ tũc .a. eſt cal'z argᷣ: qꝛ cõpoſitũ ex
p̃ª pte ꝓpoꝛˡⁱ ꝛ 2ª ꝛ 3ª eſt cal'z. nam 3ª ps ꝓpoꝛˡⁱˢ eſt in du°
minoꝛ 2ª ꝛ in duplo fridioꝛ. igiᷣ tãtũ tollet de denoiatione
q̃ntũ 2ª ponit: ꝛ p̃ª ps ꝓpoꝛˡⁱˢ tantũ ponit de intẽſione ſicut
2ª: ğ totũ cõpoſitũ ex p̃ma pte ꝓpoꝛˡⁱ: ꝛ 2ª ꝛ 3ª eſt cal'. ꝛ ſic
arᷣ ꝙ cõpoſitũ ex 4ª 5ª ꝛ 6ª eſt calm ꝛ ſic in ifiᵐ. ğ totũ cõ
poſitũ ex oĩb⁹ hꝰ cõpoſitis eſt calm. Diuidaᷣ igiᷣ hoꝛa in
ptes ꝓpoꝛˡᵉˢ minoꝛib⁹ terminatis v͛ſus finẽ. ꝛ ponaᷣ ꝙ in
p̃ma pte ꝓpoꝛˡⁱ huius hoꝛe remittaᷣ p̃ma ps ꝓpoꝛtiõalis
calida ꝛ p̃ma ps ꝓpoꝛˡⁱˢ frida ad nõ gradũ: ꝛ in 2ª pte ꝓ/
poꝛtionali hui⁹ hoꝛe remittaᷣ 2ª ps calida ꝛ 2ª ps frigida
ad nõ gᵐ ꝛ ſic in ifiᵐ: ita ꝙ ſempꝫ ad nõ gradũ remittatur
vna ps cal'a ꝛ vna aª ps frigida que corrñdent in numeris
ptiũ calidaꝝ ꝛ fridaꝝ. Et ponaᷣ ꝙ cũ aliqua ps fuerit re/
miſſa ad nõ graduz nõ inducaᷣ in illaz aliqua qualitas ſꝫ
maneat nõ qualificata: tunc totũ .a. nec intẽdeᷣ nec remit/
teᷣ: eo ꝙ ſicut vna ps frigida eſt minoꝛ pte calida ſimul cũ
ea deꝑdenda ita eſt eadem intẽſioꝛ. ğ equalr deꝑderet de
iuuamẽto ſicut de ipedimẽto: ꝛ per ɔñs totũ nec intendeᷣ
nec remitteᷣ ꝛ in fine erit nõ calm: qꝛ tunc cuiuſlibet talis
ptis ꝓpoꝛtionalis erit tota qualitas remiſſa ad nõ gradũ
nulla noua gñata. igiᷣ ſeqᷣ ɔclõ decima vera ꝛc̃. ℂ Item
vndecima ɔclõ ſeqᷣ. naz in caſu poſito totũ .a. eſt ſolũ fini/
te cal'z vel nõ cal'z: qꝛ q̃uis tota calitas .a. ſit infiᵗᵃ etiã ſua
friditas eſt infiᵗᵃ. ğ totam denoiationez calitatis ipediet
vel ſaltẽ faciet ꝙ iſta calitas ſolũ finite denoiabit hoc eſſe
cal'z. igiᷣ ponaᷣ ꝙ in p̃ª pte ꝓpoꝛtionali hoꝛe deperdaᷣ vt
p̃us ei⁹ friditas que .ſ. extẽdiᷣ per p̃mã eius ptẽ ꝓpoꝛtiona
lem frigidã: ꝛ in 2ª pte ꝓpoꝛˡⁱ iſtius hoꝛe deꝑdaᷣ 2ª fridi/
tas ꝛ ſic in infiᵐ: ita ꝙ oẽs ptes fride remittãtur ad nõ gra
dum: ꝛ qñcũq̃ꝫ vna ps frida remittiᷣ remittaᷣ cũ ea pars
cal'a eã imeᵗᵉ ꝑcedẽs ſtãtib⁹ ptib⁹ reſiduis non remiſſis .ſ.
iª .iiij. vij. x. xiij. ꝛ ſic in infiᵐ: ꝛ maneãt ptes ſic remiſſe per
imaginationẽ nõ q̃lificate in fine. ꝛ ſeqᷣ ɔclõ. Nam .a. nec
intẽdeᷣ nec remitteᷣ: qꝛ qñcũq̃ꝫ ps aliqua frida remittiᷣ:
tũc remittiᷣ ps calida dupla ad eã quãtitatiue ꝛ ea in du°
remiſſioꝛ. igiᷣ tãtũ faciet remiſſio iſti⁹ calitatis ad toti⁹ re/
miſſionẽ ſicut remiſſio friditatis ad totius intẽſionẽ. ɔñtia
tenet iuxta põnez. ꝛ añs poniᷣ. igiᷣ ſeqᷣ ꝙ nec totũ inten/
deᷣ nec remitteᷣ ꝛ in fine .a. erit ĩfinite calidũ: qꝛ tunc ha/
bebit infinitas ptes calidas equalr ad totius intenſionem
faciẽtes toto exñte finito: ꝛ nõ erit ibi aliqḋ ɔ̃riuz denoia/
tionez ipediẽs. ğ totũ tunc erit ĩfinite calm. Minoꝛ poniᷣ
in caſu: ꝛ maioꝛ arguiᷣ. qꝛ tunc hébit infinitas ptes ꝓpoꝛ/
tionales calidas vt poniᷣ in caſu: ꝛ oẽs tunc equalr ad to/
tius denoiationẽ ɔferũt: qꝛ ꝓpoꝛtionabilr ſicut aliq̃ illarũ
eſt alia minoꝛ, ita eſt ipſa intẽſioꝛ: ſeqᷣ ğ ɔclõ. ℂ Pro iſtis Rñſio.
diciᷣ ad iſtas ɔ̃nes negãdo ꝛ p̃mo ad decimã ɔcedẽdo ca/
ſum: ꝛ negaᷣ ꝙ .a. eſt calidũ: qꝛ ptes .a. hñt friditatẽ ĩfinitã
ſufficientes totũ denoiare: qꝛ p̃ma illaꝝ aliq̃lr hꝫ de frigi/
ditate ꝛ ſcḋa tãtũ ꝛ ſic deinceps: eo ꝙ ꝓpoꝛtiõalr ſicut ali/
qua illaꝝ per ſubm minus extẽdeᷣ: ita eſt iª intẽſioꝛ. ideo
quãtũcũq̃ꝫ multũ de calitate extẽdaᷣ per illud corp⁹ ma/
nente frigiditate iª caliditas totũ nõ ſufficiet denominare
calidũ: eo ꝙ vnũ infinitũ alio ĩfinito nõ eſt maius. Et ſic
ſoluiᷣ argumẽtuz cõtra decimã cõcluſionẽ negãdo p̃maz
particulam. ꝛ negaᷣ ɔñtia hec. cõpoſitũ ex p̃ma pte ꝓpoꝛ/
tionali ſcḋa ꝛ tertia eſt calidum: ꝛ cõpoſitũ ex .iiij. v. vi. eſt
calidũ ꝛ ſic in infinitũ: ergo totũ eſt calidũ: qꝛ lz cuiuſlibꝫ
talis cõpoſiti ſit caliditas magis denominãs q̃ꝫ friditas: qꝛ
tamẽ tota friditas totius caĺhe͛͛ eſt infinite denoiatiua nõ
ꝓcedit argũᵐ: qꝛ calitas nõ plus denoiare põt vt prius ꝛc̃.
ℂ Sed tunc videᷣ vndecima cõcluſio ſequi. diciᷣ ꝙ nõ:
ꝛ conceditᷣ p̃ma pars ꝛ etiã vltima: ꝛ negaᷣ media pars .ſ.
ꝙ totuz nec intendeᷣ nec remitteᷣ. imo diciᷣ ꝙ ſic: qꝛ tota
frigiditas cõtinue ante finẽ erit infinita infinitũ ſufficiens
denoiare ſubiectum deducto ſuo cõtrario: ideo pro nullo
inſtanti ante finem intendeᷣ nec remitteᷣ. ſed quia ſubito
ĩmediate ante finez deperdeᷣ frigiditas infinita que toti⁹
caliditatis denominationẽ ſufficiat impedire: ꝛ qꝛ in fine
remanebit caliditas infinita: ideo ĩmediate ante finez ſu/
bito erit acq̃ſitio intenſionis eſſe calidi in cõparatione ad
totũ: ꝛ ſic ĩmediate ante finez intendeᷣ: ꝛ ſic vna pars ɔclu
ſionis eſt falſa: ꝛ ideo cõcluſio eſt negãda. ℂ Cõtra qḋ ſic
arguiᷣ. Si quelz illaꝝ frigiditatuz nũc inciperet remitti: ꝛ
ꝑ totã hoꝛã remitteretᷣ vnifoꝛᷣ: ꝛ ita ẽt eſſet de illis calidi/
tatib⁹ remiſſis totã nullaz intenſionẽ nũc in p̃n° inciperet
acq̃rere. cũ igiᷣ cõtinue erit vniformis remiſſio frigidita/
tis ꝛc̃. ſequiᷣ ꝙ in nulla pte terminata ad finẽ hoꝛe aliquã
latitudinẽ ſubito acq̃reret. Negaᷣ ɔñtia: qꝛ lz quelz illarũ
frigiditatũ cõtinue remittaᷣ vnifoꝛᷣ: pro nullo tñ inſtanti
remitteᷣ tota illa frigiditas caĺhe͛͛: qꝛ ante finẽ ſempꝫ ma/
nebit infinita: ſed ĩmediate ante finẽ erit deꝑditio eius ad
nõ gradum: ꝛ ideo nõ ꝓcedit argᵐ. ℂ Aliter⁹ eſt quelz ps 12ª ɔ̃
ꝓpoꝛtionalis infinite calida: ꝛ tñ totum non eſt calidum.

Contra si quelz pars pportionalis sit infinite calida τ totum ex illis ptib⁹ pportionalib⁹ tanq̄ ex ei⁹ ptib⁹ quātitatiuis pcise cōponit: seqͥ q̄ totū est infinite cal'm. ¶ Et q̄ sequaf ex pōne sic arguit. Sit.a. vnū corp⁹ quadrāgulare diuisuz in duas medietates cū toto eque longas: cui⁹ vna medietas diuidaf in ptes pportionales versus supficiem mediā toti⁹: ita q̄ quelz ps ppor^lis sit equalr longa cū toto τ sit pᵃ illaꝝ ptiū aliq̄lr calida nō admixta cuz friditate τ scda in duplo calidior τ 3ᵃ in q̄druplo calidior q̄ pᵃ: τ sic in infiᵐ. Diuidif et alia medietas in ptes ppor^les ex trāsuerse v̄sus alterū extremū: ita q̄ quelz ps pportionalis sit eque lata cū medietate iᵃ τ sit pma ps pportionalis illarū aliqualr frida τ 2ᵃ in duplo frigidior non admixta cū suo 9rio τ sic in infinitū. Etiā diuidaf totū in ptes pportionales ex trāsuerso consimiliter sicut medietas iᵃ frigida.



Et sequit 9nez pᵃ ps ppor^lis .a. est ifiᵗᵉ cal'a τ 2ᵃ τ sic deinceps. Nā medietas cal'a pᵉ ptis ppor^lis est infiᵗᵉ cal'a: τ aᵃ medietas solū finite frida. g̃ tota pᵃ ps ppor^lis est infinite cal'a. minor satis pz: q̄ pᵃ ps ppor^lis pᵉ medietatis frigide est medietas pᵉ ptis ppor^lis sm istā diuisionez vt cōstat. τ maior sic arᵗ. Nā sicut pᵃ medietas toti⁹ est cal'a: ita est q̄lz ps ppor^lis illi⁹ medietatis ad supficiez mediā terminata. nā cuiuslz talis ptis si diuidaf v̄sus supficiez mediā est pᵃ ps ppor^lis aliq̄lr cal'a τ 2ᵃ in duplo calidior τ sic in infiᵐ: vt pz cuilz intuēti casuz: g̃ pz q̄ pᵃ ps ppor^lis toti⁹ est infiᵗᵉ cal'a τ 2ᵃ τ 3ᵃ 9silr τ sic in ifiᵐ: q̄ cuiuslz talis ptis est vna medietas ifinite cal'a reliq̄ medietate existe solū finite frigida: τ tñ totū nō est calz: q̄ vna medietas est infiᵗᵉ frida. nā pᵃ ps ppor^lis vni⁹ medietatis est aliq̄lr frida τ 2ᵃ in duplo fridior τ sic in ifiᵐ: g̃ ibi nulla existe cal'itate τ friditate infiᵗᵃ nulla cal'itas pōt plus denoiare: q̄ tūc nō foret rō q̄re magis eēt calz q̄ fridū. ¶ Jō di negᵈᵒ 9nez: q̄ aliquo mō pōt diuidi in ptes ppor^les: ita q̄ nō q̄lz ps ppor^lis erit cal'a vt si diuideref sic diuidif medietas cal'a. s. q̄ q̄lz ps ppor^lis foret eq̄lr longa cū toto sic cōstat. Concedaf tñ q̄ quelz ps ppor^lis toti⁹ sm istā diuisionē est ifinite cal'a: τ tñ totū nō est calz: τ h̄ bn̄ pbat casus imaginabilis positus. τ tūc ad argᵐ negaf 9nā: q̄ quelz ps ppor^lis sm illā diuisionez est infinite calida: g̃ totū cōpositū ex illis infiᵗᵉ calidis est ifinite calz. Multa aᵗ pñt fieri sophismata de finito τ de alijs: ad que oīa si denoiatiōes illaꝝ q̄litatū ipsis separatis cōsideres facillime poteris ridere. — R̄nsio.

¶ Tractatus quintus de raritate τ densitate.

Sequitur ingrere penes quid raritas τ densitas attēdanf in q̄ mā solitz due pōnes sunt inuēte rōnales: quaꝝ vna ponit q̄ raritas attēdiatur penes pportionem quātitatis subti ad ei⁹ materiam τ densitas attēdif penes pportionē materie ad q̄ntitatem. ¶ Scda ponit q̄ raritas attēdif penes q̄ntitatē nō silr sz in mā pportiōata vel in cōpatiōe ad māz. ¶ Diuersitas istarum pōnitz sic pz. Pria pōit q̄ attēdif penes ppor^nez τc. ita q̄ sic ppor^o q̄ntiᵗᵃ ad māz ē maior: ita raritas est maior: vt si raritas fiat dupla regrif q̄ ppor^o q̄ntiᵗᵃ ad māz duplef. ¶ Scda pōit q̄ pportiōabilr sicut tota q̄ntitas fit maior: manēte mā eadē ita raritas est maior: vt si nūc sit aliq̄ raritas ad duplationē illi⁹ raritatis nō seqͥ dupla⁰ ppor^nis q̄ntitatis ad māz sz solum duplicatio q̄ntiᵗᵃ si maneat mā. ¶ Pro pᵃ τ 2ᵃ pōne arᵗ. Nō pōt poni q̄ simplr attendif penes q̄ntiᵗᵉᵐ subti seu distātia pūctoꝝ a seinuicē: q̄ tūc oīa eq̄lia in q̄ntiᵗᵉ essent eq̄ rara. 9ñia pz de se τ falsitas 9ñtis pz: q̄ pedalis q̄ntitas ignis est rarior q̄ pedalis terre vt satis pz: g̃ attēdif penes q̄ntitatē in cōpatiōe ad māz: τ sic cōstat pᵃ pō q̄ attēdif penes ppor^nez τc. ¶ Pro istis est notādūz q̄ plus est d mā in pedali terre q̄ in pedali ignis: q̄ alr nō vi rarior ignis q̄ terra: vt si ignis gn̄ef ex terra toᵗ ei⁹ q̄ntitas maioraf: τ sic totū fieret rari⁹ q̄ nūc est: nihil tñ depdet de mā nec acgret: τ iō nūc est plus d mā in tᵃ terra q̄ est in q̄ntiᵗᵉ eq̄li ignis gn̄andi: nō ītelligēdo ly plus sic q̄ tota mā sit maior q̄ntiᵗᵉ sz q̄ eq̄lr est de mā q̄ est mā terre sic erit in fine in igne generādo: τ nūc est plus de tᵃ mā in quātitate terre q̄ est in q̄ntitate eq̄li ignis generādi. — Nota

Contra pᵃᵐ pōnez arᵗ vnica forᵃ. Ex h̄ seqͥ q̄ oīa eq̄lia in q̄ntiᵗᵉ siue eq̄ rara siue ineq̄lr rara eq̄lr acgrētia de q̄ntiᵗᵉ eq̄ue rarefiāt. ¶ Et q̄ h̄ sit ipole arᵗ sic. Sint.a.b. eq̄lia τ ineque rara q̄ rarefiāt eq̄les q̄ntiᵗᵃᵗᵉˢ acgrēdo tūc pportiōabilr sic maioraf q̄ntitas alic⁹ illoꝝ ita pportiōabilr acgref raritas: q̄ sic totū erit maioris quātiᵗᵃᵗⁱˢ ita ptes a seīuicē distabūt: τ sic pūcta distabūt plus fiet rari⁹ iuxᵃ descriptiōez raritatis. cū igif eq̄ ppor^e maiorabif q̄ntitas.a. sic q̄ntitas.b. τ eᵃ: seqͥ q̄ eque pportiōabilr maioref raritas.a. sic.b. cū igif ille raritates sint ineq̄les/ seqͥ q̄ plus distat vna a suo duplo q̄ alia. Si g̃ tā.a. q̄.b. maioraf ad duᵐ seqͥ q̄ vnuz maiorē latiᵗᵘᵈⁱⁿᵉᵐ raritatis acgret q̄ reliquū: τ si sic nō eq̄lr rarefiēt ponēdo velocitatē rarefactiōis attēdi penes latiᵗᵘᵈⁱⁿᵉᵐ raritatis acq̄site. seqͥ g̃ 9nez eē fl'az. ¶ Et q̄ illa sequaf arᵗ sic. Sint.a. τ .b. eq̄lia in q̄ntitate τ ineq̄ rara τ rarefiāt eq̄lr acgrēdo de q̄ntitate sine acq̄sitiōe mā̄e τ sine depditiōe eiusdē. Quo posito arᵗ sic. tantā pportiōez q̄ntiᵗᵃᵗⁱˢ acgret.a. supra māz sic supra seipaz: eo q̄ in fine ppor^o q̄ntiᵗᵃᵗⁱˢ ad māz cōponef ex ppor^ne ei⁹ ad q̄ntitatē pbitā τ illi⁹ q̄ntiᵗᵃᵗⁱˢ ad māz vt pbabᵗ vl'r de po^a τ resistentia in pᵃ regl'a de motu locali: τ silr.b. acgret tātā pportiōez reᵐ sue mā̄e sic reᵐ q̄ntiᵗᵃᵗⁱˢ pbabite. Sz q̄ntitas.a. eq̄lr acgret de ppor^ne supra seipsaz sic q̄ntitas.b. eo q̄ nūc sunt eq̄les τ sp erūt: g̃ seqͥ q̄ equeue maiorabif ppor^o q̄ntitatis.a. ad suā māz sic ppor^o q̄ntitatis.b. ad suā māz: τ penes ppor^nez q̄ntiᵗᵃᵗⁱˢ ad māz iuxᵃ pōnez attendif raritas: g̃ eq̄ue acgrēt.a. τ .b. de raritate: τ p 9ñs eq̄ue rarefiēt: g̃ seqͥ olo 9cl'o ipossis. ¶ Itē sic cuiuslz alteri⁹ positiui 9tigit imaginari vnū fiᵐ ifinite denoiari a tali nā q̄d tñ ē difforme: ita 9tigit dare raꝝ difforme fiᵐ q̄d tādez infiᵗᵉ g̃dui correspōdēt: q̄ non est maior rō q̄re raritas magis se hēat positiue vel puatiue q̄ dēsitas sicut seqͥ ex hac pōne. sz 9ñs est imaginabile: q̄ si sic sit.a. tale. cōtra. aliq̄ ps.a. est finite rara τ aliq̄ntulū hñs de mā sub certa q̄ntitate τ sic d oībᵃ alijs ptib⁹. g̃ tota mā est finite τ silr q̄ntitas vt suppono. igif totū.a. ē solū finite raꝝ τ p 9ñs nō ifinite raꝝ. seqͥ g̃ pōnē eē fl'az.

3ᵐ pōnez

2ᵐ

2ª pō. **Ideo ponitur** aª poſitio.ſ. raritas attendit̃ penes diſtãtiã pũctoꝝ ad ſeinuicẽ nõ ſimplr̃:ſed in mã ꝓportionata vel in cõparatõe ad mãz ſic intelligẽdo ſi duo ſubdupla ineq̃lia eq̃lr̃ habeãt ð mã ꝓportionabilr̃ ſicut vnũ eſt alio maiꝰ:ita eſt eo rariꝰ. Et ſi eq̃lia ſint eque rara eq̃lr̃ hebunt de mã:ꝛ ſi ineq̃lia ſint eq̃ rara ꝓportionabilr̃ ſicut vnũ eſt alio maius:ita plus hʒ ð mã:ꝛ ſi eq̃lia ſint ineq̃ rara ꝓportiõabilr̃ ſicut vnũ eſt alio rariꝰ:ita minꝰ hʒ de mã. Hec aũt põ tenet gnãlr̃ tã in difformibꝰ q̃ꝫ in vniformibꝰ:ponere eniʒ vnã põneʒ q̃ ſoluʒ teneat in vniformibꝰ eẽt valde inſufficiẽs ſm q̧ multi tenent de hac põne:eo q̧ in rebꝰ eſt multa difformitas. Cõtra hãc põneʒ videnť eẽ quedã que inferiꝰ arguenť.

❡ Utrũ tã raritas q̃ꝫ denſitas poſitiue ſe hẽant vel alfa tñ ꝛc̃.

DIcto penes qd attẽdit̃ raritas ꝛ dẽſitas:reſtat ingrere nũqd tã raritas q̃ꝫ dẽſitas ſe hẽant poſitiue vel ſoluʒ vna illaꝝ ſe hẽat poſitiue ꝛ q̃ illaꝝ fuerit. ❡ Circa quã mãz plures

pª pō ſunt põnes. Quaꝝ vna ponit q̧ vtrũq; eſt ſe hñs poſitiue

2ª ſicut calitas ꝛ frididitas. ❡ Scda ponit q̧ raritas ſe hʒ poſitiue

3ª ꝛ denſitas ꝓuatiue. ❡ Tertia ponit q̧ raritas ſe hʒ poſitiue ꝛ raritas ꝓuatiue:addens q̧ ex vniformi rarefactione aliꝗ per tp̃s ſm ſe totũ acgrit̃ vnifor' q̃titas: ꝛ ſi rariꝰ ꝛ denſius eq̃lis q̃titatis equeuẽ' rarefiãt:dẽſius ma

4ª iorẽ q̃titatẽ acgrat q̃ꝫ rarius. ❡ Quarta ponit q̧ denſitas ſe hʒ poſitiue:ꝛ dicit oppm̃ eiꝰ qð addit̃ in 3ª põne.

3pᵐ **Contra poſitioneʒ** primã arguit̃ per hoc q̧ equeue' ꝛ eque ꝓportionabilr̃ acgrit̃ raritas ſicut denſitas deꝑdit̃:ꝛ hoc non põt eẽ de duobꝰ poſitiuis.ğ põ fla. ❡ Qz aũt B nõ poſſit eẽ de duobꝰ poſitiuis arguit̃ ſic. Ponat̃ grã argumẽti q̧ raritas augmẽteť vnifor' ad ſuũ duᵐ:tũc ſi equeue' ꝛ eque ꝓportionabilr̃ minorat̃ denſitas:ſeq̃t̃ denſitatẽ remitti vnifor' ad ſubduᵐ. Sʒ ſi aliqð poſitiuũ augmẽteť vnifor' ad ſuũ duᵐ ꝓportionabilr̃ velocius intẽdeť in pª medietate tp̃is q̃ꝫ in 2ª:qꝛ in pª acgrit̃ ꝓportio ſexqalterа ꝛ in 2ª ſexquitertia. Et ſi dẽſitas remitteť vnifor' ad ſubduᵐ in pª medietate tp̃is tardiꝰ ꝓportiõabilr̃ remittit̃ q̃ꝫ in 2ª:qꝛ in pª medietate tp̃is deꝑdet ꝓportionẽ ſexqtertiã tñ ꝛ in ſcda ſexqalterã.ğ maiorẽ ꝓportionẽ acgrit raritas in pma medietate tp̃is q̃ꝫ denſitas deꝑdet:ꝛ ſi ſic/ſeq̃t̃ q̧ nõ eque ꝓportionabilr̃ maiorat̃ raritas ſicut denſitas deꝑdit̃:ꝛ per ꝯñs nũq̃ꝫ eq̃lr̃ ꝛ eque ꝓportiõabilr̃ maiorabit̃ raritas ſicut denſitas deꝑdit̃. Et q̧ equeue' ꝛ eque ꝓportionabilr̃ maioreť denſitas ſicut raritas deꝑdit̃ ꝛ eʒ/pʒ:qꝛ ꝓportionabilr̃ ſicut aliqd fit dẽſius ita fit minoris quãtitatis:qꝛ ptes magis ꝓpinque ſibiinuicẽ iacent:ꝛ ſicut fit minoris q̃titatis/ſic fit minꝰ rarũ:qꝛ ſi rarefiat.a.ſicut rarefieret/ſic eſſet maioris quãtitatis.ğ ſi eʒ cõdẽſeť ſicut erit minoris quãtitatis ſic erit minꝰ rarũ.ğ ſeq̃t̃ q̧ ꝓportionabilr̃ ſicut fit denſius:ita fit minꝰ rarũ. Et q̧ equeue' maioreť denſitas ſicut minorat̃ raritas arguit̃ ſicut de calitate ꝛ friditate.

Confirᵒ ❡ Itẽ equeue' ſicut acgrit̃ de diſtãtia ptiũ adinuicem/ſic deꝑdit̃ de ꝓpinqtate earũdem ptiũ abinuicẽ:ꝛ ad remotionẽ ptiũ abinuicẽ ꝯſeq̃t̃ raritas:ꝛ ad ꝓpinqtatẽ partiuʒ ꝯſeq̃t̃ denſitas:ğ equeue' deꝑdeť vna ſicut alia acquirit̃.

Confirᵒ ❡ Item non differunt raritas ꝛ denſitas inter ſe realiter: quia ꝓpinquitas ptium eſt eadem realiter cum diſtantia earũdeʒ:ꝛ ꝓpinqtas ptiũ eſt dẽſitas ꝛ diſtãtia eſt raritas.

2ª ergo ꝛc̃. ❡ Itẽ ſi raritas ꝛ denſitas foreẽt ꝯ̃ria: ſeq̃t̃ q̧ non oẽ rarũ foret denſuʒ:qꝛ tũc foret ignis ſũme rarus ꝛ terra ſumme dẽſa. Oppᵐ ꝯñtis per deſcriptionẽ rari ꝛ dẽſi pʒ.

3ª ❡ Itẽ data iſta põne ſeq̃t̃ q̧ aliqd eſt finite rarum finite quãtitatis:infinite tñ poᵉ nullaʒ aliã qualitatẽ hñdo ĩfinitã: cuius tñ oppᵐ ſemꝑ eſt veꝝ:ſi denſitas aliqd ponit ð poᵉ, nam ſicut aliqd eſt denſius cũ aliꝫ diſpõnibꝰ q̃litatiuis ꝛ quãtitatiuis/ita eſt maioris poᵉ. Et q̧ 1ª ꝯclo ſequat̃ arguit̃ ſic. Ponat̃ q̧.a.ſit vnũ vnifor' difforme rarũ terminatuʒ ad nõ graduʒ raritatis: ꝛ ſit grã argumẽti vnifor' caliduʒ vel friduʒ vel aliq̃ alia q̃litate qualificatũ. Et arguit̃ q̧.a. ſit finite rarũ:qꝛ.a.eſt vnifor' difforme rarũ:ğ.a.eſt finite rarũ.ꝯñs cũ añte pʒ ex caſu. Et q̧.a.ſit finite q̃titatis ſolũ hñs aliquã q̃litateʒ ſeu q̃titatem finitã ſeu finitas/pʒ ex caſu. Et q̧ totũ ſit infinite potẽtie pʒ:qꝛ 2ª ps ꝓporᵗˡⁱˢ eſt in duplo minoris quãtitatis q̃ꝫ pª:ꝛ in duplo denſior q̃ꝫ pª cum aliꝫ diſpõnibꝰ eq̃libꝰ.ğ ſcda ps ꝓportionalis eſt tãte poᵉ ſicut pma ps ꝛ 3ª ps per ideʒ ſicut 2ª ꝛ ſic deinceps:ğ tota ſua poᵃ eſt infinita.ꝯñs pʒ cũ añte. ❡ Illud ſic ꝯfirmat̃. Confirᵒ

Ponat̃ quãcũq; pteʒ ꝓportiõaleʒ aliã a pma rarefieri ad equalitatẽ pme. Et ſeq̃t̃ q̧ illa que nũc eſt 2ª ps ꝓportionalis erit in fine eq̃lis quãtitatis ꝛ raritatis cũ pª ꝛ aliaruʒ diſpõnuʒ equalitũ:ꝛ ſic ẽt erit de quacũq; alia pte ꝓporᵗˡⁱ. igit̃ queliʒ ps ꝓportionalis in fine erit eq̃lis poᵉ cũ pma:ꝛ nulla ps ꝓportionalis augmẽtabit̃ in poᵃ:ergo nũc eſt q̃liʒ ps ꝓportiõalis eq̃lis poᵉ cũ pma. Añs arguit̃:qꝛ ſicut aliq̃ ps eſt maioris quãtitatis/ita eſt minus denſa:ğ nulla taliũ maiorabit̃ in poᵃ. vel ſic.totũ in fine erit infinite potẽtie:ꝛ nũc eſt tante ſicut tũc erit.ğ nũc eſt ĩfinite potẽtie. Maior pʒ:qꝛ in fine erit totũ infinite quãtitatis finite denſum:ğ vnifor' denſuʒ ꝛ finite intẽſuʒ aliꝫ q̃litatibꝰ.ergo ꝛc̃.ꝛ minor arguit̃:qꝛ ſicut erit maioris quãtitatis: ita erit minus

4ª denſum. ❡ Itẽ ſequit̃ 1ª ꝯclo q̧ aliqd eſt raruʒ qð non eſt raꝝ:qꝛ in iſto caſu.a.eſt rarũ vnifor' difforme. Et q̧ nõ ſit rarũ arguit̃ ſic:qꝛ.a.eſt ĩfinite denſuʒ:ğ nõ eſt rarũ.ꝯñs pʒ ſicut eniʒ eſt aliqd alio denſius:ita eſt eo minꝰ rarũ. ꝛ añs pʒ:qꝛ pª ps ꝓportionalis eſt aliq̃lr̃ denſa:ꝛ 2ª in duplo dẽſior ꝛ ſic deinceps.ğ tota denſitas eſt infiᵗᵃ ꝛ raritas finita: ergo in infinitũ excedit raritatẽ dẽſitas.ꝛ tũc ſi ſic:ergo eſt infinite denſuʒ:ꝛ per ꝯñs nõ eſt raꝝ:ꝛ ſic per iſtũ caſuʒ pʒ põneʒ fore falſaʒ:ꝛ caſus eſt poſſis. ſi.n.raritas ſe hẽat poſitiue vt calitas:tũc ſicut ꝯtingit accipe calm̃ vniformiter difforme ad nõ gradũ calitatis terminatũ:ita ꝯtingit accipere rarũ vnifor' difforme ad nõ gᵐ raritatis terminatũ.

5ª ❡ Iteʒ ꝯ̃ iſtã põneʒ ſic arguit̃. Si foret aliqð calm̃ cuiꝰ prima ps foret aliq̃lr̃ calida ꝛ 2ª in duplo calidior ꝛ ſic in infinitũ hñs frigiditatẽ ſoluʒ finitã totũ eẽt infinite calm̃ vt ꝓargutũ eſt:qꝛ eſſet infinitꝰ exceſſus calitatis ſupra frigiditatẽ.ğ per ideʒ ſi foret aliqð tale:cuius pª ps ꝓportionalis eſſet aliqualr̃ rara ꝛ 2ª in duplo rarior:ꝛ ſic in ĩfinitũ totũ eẽt infinite raꝝ:eo q̧ raritas eẽt ĩfinita ꝛ dẽſitas ſolũ finita.ſed ꝯñs falſuʒ:ğ poſitio falſa.falſitas ꝯñtis pʒ. Naʒ ſit.a.vnũ tale:ꝛ ſeq̃t̃ q̧ mã.a.eſt aliquãta ꝛ quãtitas ſoluʒ finita:ergo totũ.a.eſt ſolũ finite rarũ.ꝯñs pʒ: qꝛ ſit.b.vniformiter raꝝ hñs tãtũ de mã ſicut.a.ꝛ ſit tante quãtitatis ſicut.a.caſus/pʒ.nã ex quo.a.tãtũ ꝯtieť de mã demõſtrata vna q̃titate mãe.b.tãtũ põt ꝯtinere cũ ſit vnifor'. Et ſi.b. ſit maioris quãtiᵗⁱˢ q̃ꝫ.a. põt ꝯdẽſari ad eq̃litatẽ.a.manẽs vniforme.ꝛ ſi.b.ſit minoris q̃ntiᵗⁱˢ q̃ꝫ eſt.a.põt rarefieri ad eq̃litatẽ.a.ſemꝑ manẽs vnifor' vt ꝯſtat cuiliʒ intuenti:quo poſito.b.eſt ſoluʒ finite raꝝ:qꝛ vnifor' raꝝ certe quãtitatis certũ ꝯtinẽs de mã:ꝛ.a.eſt eque raꝝ cũ.b.qꝛ.a.eſt eq̃lis quãtitatis cũ.b.tantũ ꝯtinẽs de mã ſic.b. ğ ꝑ vtrãq; põnẽ ponentẽ penes qd attẽdit̃ raritas:ſeq̃t̃.a.eẽ eque raꝝ cuʒ b.ꝛ ſic ſeq̃t̃ q̧.a.eſt ſolũ finite raꝝ. ğ ꝯclo falſa.que tñ ſequit̃ ſi raritas foret res poſitiua ſicut calitas ꝛc̃.ergo ſeq̃t̃ q̧ nõ tã raritas q̃ꝫ etiã denſitas ſe hñt poſitiue.

Sequitur ergo poſitio ſcda que ponit q̧ raritas ſe hʒ poſitiue ad quã ſic arguit̃. Inter oẽm 2ª pō graduʒ raritatis ꝛ graduʒ infiᵐ raritatis eſt latitudo infinita.ſed inter nullũ gradum ſummũ alicuius priuatiui ꝛ

gradus eiuſdē infinitū eſt latitudo infinita vt argutū eſt de latitudine remiſſionis. ergo latitudo raritatis nō ſe h̄z ꝑuatiue. Maioꝛ arguit̄ ſic. Capiat̄ aliqđ rarū qđ rareſiat in infim: tūc vel eſt ei9 raritas tāta ſicut quātitas vel maioꝛ vel minoꝛ. Si ꝑciſe tāta ꝛ ita ꝓpoꝛtionabilr augmētabit̄ raritas cuꝫ q̄ntitate: eo ꝙ ſicut erit rari9 ita ꝓpoꝛtionabilr erit maius. ꝛ ſi ſic ꝯtī eque augmētabūt̄. nā ꝯtī erūt eq̄les: ꝛ ſi ſic ꝯtinue tātū addet̄ raritati ſicut quātitati: ſed quātitati addet̄ latitudo q̄ntitatis infita. g̃ ꝛ raritati addet̄ latitudo infita. ſed nulla niſi ia que eſt īter illū gm ꝛ gradū infim raritatis. g̃ ia latitudo eſt infita. Si g̃ dicat̄ ꝙ raritas ſit maioꝛ q̄ꝫ quātitas ꝛ eque ꝓpoꝛtiōabilr augmētabunt̄. g̃ in qua ꝓpoꝛtiōe erit raritas maioꝛ q̄ꝫ quātitatis in eadē ꝓpoꝛtiōe veloci9 maioꝛabit̄ ꝛ ſibi plus addet̄. cum ergo quātitati addet̄ infita quātitas. g̃ ꝛ raritati addet̄ latitudo infita. Si g̃ dī ꝙ raritas ſit minoꝛ q̄ntitate ꝛ ꝓpoꝛtiōabilr augmētabit̄. g̃ in ea ꝓpoꝛtione in qua erit minoꝛ in ea ꝓpoꝛtiōe min9 acqret: ſed q̄ntitas acqret infinitū. g̃ ꝛ raritas acqrit infinitā latitudinē raritatis: ꝛ per ꝯñs inter oēm gm raritatis ꝛ gm infim eſt latido infita: qđ nō eſt veruꝫ de aliq̄ latitudine ꝑuatiua. ¶ Pro ia etiā pōne ſūt argta q̄ erūt ſcā

3 pōnes 3 pōnē ponēte ꝙ dēſitas ſe h̄z poſitiue. ¶ Cōtra iſtā pōnē ar ſic. Ex ia ſeqt̄ ꝙ in oī raro eſt ifita dēſitas. nā in oī raro eſt aliq̄ raritas ꝛ ſubdua ꝛ ſubq̄drupla ꝛ ſic in ifim: ſic in oī intēſio eſt aliq̄ itēſio ꝛ ſubdua ꝛ ſubq̄drupla ꝛ ſic in infim: ꝛ per ꝯñs in oī raro eſt aliq̄ denſitas ꝛ dupla ꝛ q̄drupla ꝛ ſic in ifim. ſicut. n. raritas eſt minoꝛ ſic dēſitas eſt maioꝛ: q2 nō eſt aliud eē duplaꝫ denſitatē q̄ꝫ ſubduplaꝫ raritatē ſicut dupla remiſſio eſt ſubdua intenſio. g̃ ſicut ſeqt̄ hic eſt aliq̄ intēſio ꝛ ſubdupla ꝛ ſubq̄drupla ꝛ ſic in infim: g̃ hic eſt remiſſio dupla q̄drupla ꝛ ſic in ifim. per idē ſeqt̄ in iſto raro eſt aliq̄ raritas ꝛ ſubdupla ꝛ ſubq̄drupla ꝛ ſic in infim. g̃ in

Confir. iſto eſt aliq̄ dēſitas dupla q̄drupla ꝛ ſic in ifim. ¶ Iteꝫ in oī magno eſt infita paruitas: q2 aliq̄ magnitudo ſubdupla ſubq̄drupla ꝛ ſic in infinitū. g̃ per ideꝫ in oī raro eſt infita dēſitas: q2 raritas rea denſitatis ſe h̄z ſicut magnitudo rea paruitatis: ꝛ ſic de oī latitudine poſitiue vel ꝑuatiue ꝯſiderata: vel que ſe h̄z rea alteri9 poſitiue ꝙ id includit in ſe infinitū gm ſui ꝯtrij ꝑuatiui. ꝯñs ad qđ deducit̄ eſt falſum: q2 dēſitas eſt magna ex hoc ꝙ certa eſt mā in modica quātitate: ꝛ ſicut certa eſt mā in q̄ntitate minoꝛi: ita eſt denſitas maioꝛ. ſi g̃ dēſitas foret ifinita certa mā in oī tali raro ſub infim modica q̄ntitate exiſteret. ꝯñs falſuꝫ: q2 aliqđ pōt eē

2° pntes rarū vniformiter. ¶ Scđo ꝯ illā pōneꝫ arguit̄ ſic. Ex illa ſequit̄ ꝙ oē rarū eſt ifinite rarū. naꝫ in oī raro eſt infinita raritas ꝛ ſoluꝫ finita dēſitas: qđ arguit̄. Capiat̄ aliqđ rarū pedale gr̄a exēpli: tūc ꝯtingit dare ptes mā̄e in duplo minoreꝫ q̄ꝫ eſt tota mā toti9 q̄ntitatis eq̄lis cū tota. ſi eniꝫ per abſtractionē mā̄e ad oēꝫ pūctū foret raritas dupla: ita ꝙ medietas mā̄e eſſet abſtracta: tota mā remanens foret in duplo rarioꝛ q̄ꝫ nūc eſt tota mā: ꝛ nunc eſt tota remanens eq̄lis quātitatis ſicut tūc eēt. g̃ nūc eſt iſta mā in duplo rarioꝛ q̄ꝫ tota mā: q2 eſt eq̄lis quātitatis cū tota mā. per ideꝫ arguit̄ ꝙ in illo eſt mā ſubquadrupla ad totā mām eq̄lis quātitatis cū tota ꝛ ſic deinceps. g̃ tota mā eſt aliq̄lr rara medietas mā̄e eq̄lis q̄ntitatis cū toto in duplo rarioꝛ: ꝛ 4a ps mā̄e eq̄lis q̄ntitatis cuꝫ tota in q̄druplo rarioꝛ ꝛ ſic deinceps: g̃ in ſe ꝯtinet ifinitā raritatē. ſi g̃ raritas poſitiue ſe h̄z ſicut intēſio vel magnitudo: ſeqt̄ ꝙ tale rarū eſt ifinite

3° rarū ſicut h̄ns magnitudinē infinitā eſt infim. ¶ Itē ſeqt̄ ꝙ ſi aliqđ rareſiet ſubito fieret infinite rarū. nam ad oēꝫ punctū eſt ifinite velox rarefactio. qđ arguit̄ ꝛ ꝓbat̄ ꝑmo ꝙ ſi eq̄lia quātitatiue ineq̄lr rara rareſierent: ita ꝙ ſemꝑ manerēt eq̄lia ſicut vnū eſt alio rarius ita velocius rareſiet: vt ſi ſint duo pedalia: quoꝝ vnū ſit rarū vt quatuoꝛ ꝛ aliud vt duo: tunc ſi manebūt ꝯtinue equalis quātitatis: ſequit̄ ꝙ eque ꝓpoꝛtionabilr rareſient. g̃ nūc cū vnū ſit in duplo rarius: ſeqt̄ ꝙ cōtinue erit in duplo rarius: ꝛ per ꝯñs ꝯtinue in duplo veloci9 acqret de raritate. ſi eniꝫ vnū ſit dupluꝫ ꝛ ſemꝑ manet dupluꝫ rea alterius ꝛ vtrūqꝫ ꝯtī maioꝛabit̄ ſeqt̄ ꝙ dupluꝫ in duplo veloci9 acqret de quātitate: vt id qđ nūc eſt rarū vt duo cū fuerit vt q̄tuoꝛ: tunc illud qđ eſt rarū vt q̄tuoꝛ ſi ſemꝑ maneat duplum: opꝫ ꝙ tūc fieret vt. viij. ꝛ ſic acqret. iiij. cū reliquū acquiret. ij. qđ gnālr eſt veꝝ de oīb9 poſitiuis poſitiue cōſideratis. Et ex hoc arguit̄ vt ꝑus argutū eſt. cōtingit accipe mām ſubduplaꝫ eq̄lis q̄ntitatis cū tota mā: ꝛ ſeparet̄. g̃ in duplo velocius illa rareſiet q̄ꝫ tota mā: ꝛ ſic in infim. cū g̃ ad oēm punctuꝫ illi9 rari ſit aliqs punct9 cuiuſlꝫ talis ptis mā̄e: ſequit̄ ꝙ ad oēm punctū hui9 eſt ifita velox rarefactio: qđ fuit ꝓbandū. ¶ Itē arguit̄ ex ꝯñte. ad oēm punctū erit cōtinue infite velox rarefactio ꝛ nulla ꝯdenſatio. g̃ totū ſubito fiet infinite rarū: ſicut ſi ad oēꝫ punctū alic9 intēſi infite velox cōtinue eēt intēſio ſubito fieret infinite intenſuꝫ nulla ad eadeꝫ puncta ſcā remiſſione. g̃ ſequit̄ ꝙ ſi aliqđ rareſieret ſubito fieret infite rarū. ꝛ ſi ſic, ſeqt̄ ꝯclō ꝑus reducta ꝙ oē rarū eſt ifinite rarū: q2 ſi nō ſit illud. a. ꝛ ſit. b. rari9. a. quo poſito rareſiat. a. ad raritatē. b. ꝛ ſeqt̄ ꝙ ſubito fiet ifinite rarū per ꝑargata ꝛ nō ſubito fiet rari9. b. vel ſeqt̄ ꝙ nihil per tp̄s poterit rareſieri. g̃ ſeqt̄ ꝙ. b. erit ifinite rarū: ꝛ. b. eſt ſolū finite rarius. a. q2 vtrūqꝫ eſt q̄ntitatis finite. g̃ ſeqt̄ ꝯclō: que tn̄ eſt ipoſſi. ¶ Quarto ꝯ iſtā pōneꝫ ſic arg. Ex 4°

illa ſeqt̄ ꝙ aliqđ eſt rarū finitū difforme ꝛ finite raꝝ certo gradui finito vniformi correſpōdēs: qđ tn̄ ſi ad vniformitatē gradus alic9 raritatis quātūcūqꝫ remiſſi9 duceretur fieret infite dēſuꝫ ſi quātitas finita maneat: qđ tn̄ nō eſt cōſonū rōni ſi deſcriptio rari ſit bn̄ data. ſeqt̄ eniꝫ ꝙ ſi fieret vnifor aliq̄ gradu raritatis foret rarū: ꝛ per ꝯñs nō fieret infinite dēſuꝫ: qđ tn̄ in vna ꝑticula ꝯñtis reducte ponitur. ¶ Qꝫ aūt iſta ꝯclō ſequat̄ ſtatiꝫ arg ſic. Et capiat̄ aliqđ vnifor difforme rarū ad nō gradū raritatis terminatū ſit gr̄a exēpli: pedale ſit id. a. tūc. a. eſt finite rarum: eo ꝙ vniformiter difforme rarum ꝛ ē finite quātitatis vt conſtat. arguit̄ iam alia ps ꝙ. ſ. ſi ad vniformitatē reduceret̄: manens quātitatis finite fieret ifinite denſum. ſi. n. foret mā aliq̄ alicui9 q̄ntitatis finite vnifor rara illa foret aliqualr rara: ꝛ ſi mā dupla foret eiuſdē quātitatis: illa foret in duplo denſioꝛ: ꝛ ſic deinceps. Cuꝫ g̃ mā. a. ſit infita ſeqt̄ ꝙ ſi foret quātitatis finite vnifor rara vel denſa ꝙ illa ifinite denſitatis ꝯſiſteret. Et ꝙ mā. a. ſit infita ſtatiꝫ ſic arguit̄. Diuidatur. a. in ptes ꝓpoꝛtionales verſus nō gradū: tūc prima pars ꝓpoꝛtionalis eſt in duplo rarioꝛ 2a vt pꝫ: ꝛ in duplo maioꝛis quātitatis. ergo tanta preciſe eſt mā prime partis ꝓpoꝛtionalis ſicut ſecūde. Et ſic per ideꝫ arguit̄ māꝫ ſcđe ptis eſſe equaleꝫ materie tertie ptis ꝛ ſic in infinituꝫ. ergo infinitā materiā cōtinet. a. qđ fuit ꝓbādum: ex quo ſequit̄ cōcluſio ia falſa reducta. ergo poſitio falſa. ¶ Iteꝫ ſequit̄ ꝙ nulli gradui in raritate correſpōdet: q2 ſi ſic ſit gradus ille. b. cōtra reducat̄ nunc ad vniformitatē illius gradus: ꝛ ſequit̄ ꝙ tunc erit infinite quātitatis: q2 aliter ſequeret̄ ꝙ aliqua mā cū tanta raritate eſſet alicui9 quātitatis dupla mā cuꝫ equali raritate eſſet in duplo minoꝛis quātitatis ꝛ ſic in infinitū. cuꝫ ergo mā. a. ſit infinita per ꝑargata: ſeqt̄ ꝙ ſi foret vniformiter rarū infinite foret quātitatis: quia ſicut mā eſt infinita: ita opꝫ reducere quātitateꝫ ad infinitum: ꝛ per ꝯñs ſi ad vniformitatē reducat̄ quātitas in ifinitum eſſet maioꝛ q̄ꝫ nunc eſt ꝛ mā equalis: ergo raritas eſſet maioꝛ q̄ꝫ nūc eſt. ꝯñtia tenet: eo ꝙ rarū eſt cuius partes remote iacent: ſicut ergo partes remotius iacent in mā equali: ita raritas eſt maioꝛ. Ex his ſequitur ꝙ raritas. a.

b.gradui nō corrñdet:q: ſi ſic ad.b. gradus vnifor' poteſt
5° reduci. ¶ Quinto ad idez ꝯ iſtā pōnez arguit ſic.qd arg^m bñ notet. Ex iſta ſeq̄t iſta ꝯclo reducta ꝯ pmā pōnez.ſ.ꝙ aliqd finitū finite rarū eſt īfinite magne po^e, nullam alias hñs q̄ltatē infinitā.arguit illā ꝯñez ſeq ad candē ſicut ex pma pōne ſequi eſt argutū:ꝛ idem caſus in vtraqꝫ ponit. ¶ In opp^m hui' arguit .ſicut.n.raritas eſt minor cū alijs diſpōnib' eq̄lib',ita po' eſt maior. Si ḡ raritas ſit ſolū finita ꝛ ēt oēs alie diſpōnes ſolū finite:ſeq̄t ei' po^tas ſolūz eē finitā:ꝛ ſic ſeq̄t iſtā pōnez eē falſam ponētez ꝙ raritas ſe hēat poſitiue re^e dēſitatis. ¶ Cōtra iſtā pōnez arg' ēt per ꝯñez tertiā reductā cōtra poſitionē ꝓximā cū eodē caſu ꝛ argumentis pro ꝛ cōtra.

3ª pō. Reſtat tertiā pōnez reducere ponētez ꝙ dēſitas ſe hꝫ poſitiue ꝛ ꝙ ex vniformi rarefactiōe alic' ꝑ tps ſm ſe totū acq̄rit q̄titas vni' q̄titaꝫ ad tps ꝛc. Pro pª pte ſunt oīa ar^ta q̄ ſūt ꝯ opionē pcedentem. Pro 2ª vō pte ſic ar'. Sit.a.vnū rarꝫ vni' rarefactū: nūc ſi raritas.a.ꝛ ſua q̄titas in gª corrñdeāt ꝛ eq̄ ꝓpor' maiorat raritas cū q̄titate iuxta pargūta. ḡ raritas.a. ꝛ q̄titas ꝯti^e erūt eq̄les eo ꝙ ad raritatē nūc hābitā ꝯti^e eq̄lez hēbit ꝓportionē:ꝛ per ꝯñs equeue' maiorabit raritas cū q̄titate: q: alr ꝯti^e nō manerent eq̄les.ꝛ ſi raritas cū vni' acq̄rit:ḡ etiā vni' q̄titas. Si vō q̄titas ſit minor q̄ raritas ꝛ eque ꝓportiōabilr maiorabunt. ḡ ſicut q̄titas raritate eſt minor:ita min' acq̄ret q̄titas q̄ raritas:ſicut ſi q̄titas ſit maior raritate ꝛ ēt eque ꝓpor' maiorabunt q̄titas ꝛ ipſa raritas:ſeq̄t ꝙ ſic maior eſt q̄titas q̄ raritas:ita veloci' maiorabit q̄titas q̄ raritas.cū ḡ raritas vni' maiorabit ſm tps:ſeq̄t ēt q̄titatē ei' vni' ſm tps ei' maiorari.Et nō hāc eē maximā euidētiam pro pte iſta. ¶ Pro 2ª pte 2ª ptis iſti' pōnis ſic ar'. Sint.a.ꝛ.b.rara ineq̄lr.a.min' rarꝫ.b. magis rarū.ſit.a.gīa arg^ti vt duo.ſi ḡ.b.ſit in du' rarius q̄ a.ſeq̄t ꝙ.b.erit rarꝫ vt q̄tuor: rarefiāt ḡ iſta duo.ſ.a.ꝛ.b. equeue'.ꝛ ſeq̄t ꝙ cū.a.fuerit vt q̄tuor.b.erit vt ſex. ꝛ ſi ſic cū.a.fuerit in dꝫ rari' q̄ nūc eſt:erit.b.in ſexq̄altero rari' q̄ nūc eſt. ꝛ ꝓpor' ſicut.a.ꝛ.b.erūt rariora:ita ēt erūt maiora.ḡ cū.a.fuerit in du' maius q̄ nūc eſt erit.b. in ſexq̄altero mai' q̄ nūc eſt. ꝛ in pn' ſunt.a.ꝛ.b.eq̄lia.ḡ maiorē q̄^tem acq̄ret.a.q̄.b.ꝛ.a.eſt denſi' q̄.b.ḡ denſius cū rarefactione eq̄li maiorē acq̄ret q̄^tem q̄ rari':ꝛ ſic ſeq̄t pōnez illaꝫ pro
3 pōnez oī pte eē ꝓbatā. ¶ Contra illā pōnez ar' ſic. ꝛ p' ar' pmā ptē 2ª formalr repugnare ſic. Sit.a.min' rarū ꝛ.b.magis rarū:ꝛ rarefiāt eque' in iſi^m vel ad nō g^m dēſitatis qd idez eſt. quo poſito ſeq̄t ꝙ.b. citi' deueniet ad nō g^m dēſitatis q̄.a.q: ſi itēſi' ꝛ remiſſi' eq̄ue' remittant:citi' deueniet remiſſius ad nō g^m intēſionis q̄ intēſi'.cū ḡ dēſitas poſitiue ſe hēat ſicut intēſio ꝛ raritas ꝓuatiue ſic remiſſio:ſeq̄t ꝙ ſi rari' eq̄ue' rarefiat cū dēſiori,citi' deueniet rari' ad nō g^m denſitatis q̄ dēſi'. ꝛ q̄ cito pciſe erit.a.ſub nō g^u dēſitatis vel ipm.b.tācito erit infi^te q̄ti^tis: ḡ citi' erit.b. infi^te q̄ti^tis q̄.a.q:.b.erit ſub q̄ti^te iſi^ta qñ.a.erit ſub q̄ti^te finita:ꝛ.b.eſt rari' q̄.a.ꝛ eq̄lis q̄ti^tis cū eo:ḡ rari' maiorē q̄ti^tem acq̄ret
2° q̄ dēſi' ſibi eq̄le cū rarefactiōe eq̄li. ¶ Scdo ad idez arguit ſic.cū ꝯdēſatiōe eq̄li rari' nō minorē q̄ti^tē deperdet q̄ dēſius.ḡ ecōuerſo ꝑ rarefactionē eq̄lez rari' nō miorē q̄titatē acq̄ret q̄ dēſi'. Intelligant ſemp iª eē eq̄lis q̄titatis. Sint vt ꝓus.a.ꝛ.b.eq̄lis q̄ti^tis.a.dēſi' ꝛ.b. rari' cōdenſent equeuelociter in iſi^m.quo poſito ſi forēt duo eq̄lr remiſſa ſiue ineq̄lr que ꝯti^e velociter itēderent:equecito ad intēſionē īfinitā deuenirēt. ḡ per idez ſi dēſitas ſe hꝫ poſitiue ſicut intēſio:ſeq̄t ꝙ dēſius equecito deueniet preciſe ad g^m infi^m dēſitatis ſicut rari':ꝛ cū deuenerit ad gradum dēſitatis infinitū,erit vtrūqꝫ nō q̄tū.cū igit.a.ꝛ.b.nūc ſint eq̄les in quātitate ꝛ equeuelociter ꝯdēſabunt in infinitū

ſeq̄t ꝙ.a.equecito deueniet ad nō g^m q̄titatis pciſe ſic.b. cū ꝯdenſatiōe equali:ꝛ.a.eſt denſius.b.ḡ denſius cū ꝯdenſatione equali nō deꝑdet maiorē quātitatez q̄ rarius. ḡ ſi equeuelociter rarefiat denſius ꝛ rari' eq̄lis quātitatis,non maiorē quātitatē acq̄ret dēſius q̄ rari'. ¶ Tertio ad idē 3°
arguit ſic. Sint.a.ꝛ.b.equalis quātitatis.a.denſius ꝛ.b.rarius vt ꝓus:ꝛ ſit vtrūqꝫ eque remiſſuꝫ ſicut rarūꝫ:ꝛ remittat vtrūqꝫ equeuelociter ad nō gradum: non tñ equecito rarefiant ita ꝙ ſemꝑ maneāt eque remiſſa ſicut rara.quo poſito.a.eſt min' rarū q̄.b.ꝛ vtrūqꝫ eſt ita remiſſuꝫ ſicut rarū per caſum.ḡ.a.eſt minus remiſſuꝫ q̄.b. ꝛ per ꝯñs.b. eſt remiſſius.a.ꝛ equeuelociter cōtinue preciſe remittent. ergo citi' deueniet.b.ad nō graduꝫ intēſionis q̄.a.ꝯña pꝫ per hoc ꝙ.b.min' diſtat a nō gradu q̄.a.remittat:ḡ.b.ad nō graduꝫ in hora:nūc ex quo.b.ꝯtinue erit eque remiſſuꝫ ſicut rarū:ſeq̄t ꝙ īfinite rarū erit.b.in iſta hora ꝛ.a.ſolum finite rarū eo ꝙ ꝯtinue.a.erit ſoluꝫ finite remiſſuꝫ. ḡ ſeq̄t ꝙ in infinitū rarius erit.b.q̄.a.in iſta hora : ꝛ nūc ſunt eq̄lis quātitatis.ergo in infinitū maioris quātitatis erit.b.q̄ a.in iſta hora:ꝛ per ꝯñs infinitā maiorez quātitatē acq̄ret b.q̄.a.ꝛ.b.eſt rari'.a.ꝛ iſta ꝯtinue equeuelociter rarefiēt. ergo poſitio falſa. Et ꝯtinue eq̄uelociter rarefient pꝫ:q: vtrūqꝫ cōtinue erit eque rarū ſicut remiſſuꝫ. ḡ equeuelociter vtrūqꝫ cōtinue rarefiet ſicut ipſuꝫ remittet. cū ergo iſta duo ꝯtinue equeuelociter remittent:ſequit ꝙ equeuelociter rarefient:ꝛ ſunt eq̄lis quātitatis.b.rarius q̄.a.ergo b.maiorē q̄titatē acquiret q̄.a.ḡ poſitio falſa. ¶ Quarto 4°
arguit ſic. Iſta ponit ꝙ ex vniformi rarefactiōe alicuius ſm ſe totū vniformiter acq̄rit quātitas: ergo ecōuerſo ex vniformi cōdenſatione vniformius ſeq̄t deꝑditio quātitatis.ꝯña tenet per hoc ꝙ vniformiter acq̄rere raritatez nō eſt aliud q̄ vniformiter deꝑdere denſitatez. Si ḡ ex vniformi rarefactione ſequit vniformis acq̄ſitio quātitatis. ergo ex vniformi deꝑditione denſitatis,ſequit vniformis acq̄ſitio quātitatis:ꝛ per ꝯñs ecōuerſo ex vniformi acq̄ſitione denſitatis ſequit vniformis deꝑditio quātitatis,ꝛ ex difformi difformis. Pono ergo ꝙ.a.cōdenſet ad nō q̄titatē ita ꝙ quātitas vniformiter deperdat ad nō graduꝫ quātitatis:tunc iuxta argūta denſitas vniformiter acq̄rit.ponatur ergo ꝙ hoc fiat in hora:cū ergo totū deꝑdet ad non graduꝫ per huius cōdenſationē ꝛ ꝓportionabilr ſicut erit minoris quātitatis ita erit denſius.ergo īfinite denſuꝫ hoc erit ꝛ denſitas vniformiter acq̄rit: ergo a gradu ſub quo nūc eſt denſitas ad graduꝫ infinitū denſitatis eſt latitudo tantūmodo finita.ꝯñtia pꝫ per hoc ꝙ latitudo infinita nō pōt vniformiter acq̄ri in hora:ſed nullius poſitiue latitudinis eſt ab aliquo gradu vſqꝫ ad aliquē graduꝫ iſi^m ſolū latitudo finita.ḡ latitudo dēſitatꝫ ſe nō hꝫ poſitiue.ꝛ ſi ſic, ſequit vnā partē illius pōnis alteri repugnare.

Et ideo ponit pō 4ª ꝛ vltª ponēs ꝙ denſitas ſe habet poſitiue ꝛ ex vniformi rarefactiōe alicuius per temp' ſm ſe totū difformiter acquiritur quātitas:ꝛ ſi denſius ꝛ rari' eq̄lis q̄titatis equeuelociter rarefierēt:rari' maiorē quātitatē acq̄reret q̄ dēſius. 4ª pō ꝛ ꝓpria.
Pro pma pte hui' pōnis ſunt argumēta que ꝯ ſcdaꝫ poſitionē ſunt adducta. Pro ſcda pte illius pōnis ſūt oīa argumenta que cōtra pōnez imediate pcedentē ſunt adducta. ¶ Itē pro iſta ſic arguit. Si raritas ſe hꝫ priuatiue ſicut remiſſio:ſequit ꝙ inter oēm graduꝫ raritatis ꝛ ſuū duplū eſt in duplo minor latitudo q̄ inter ipſuꝫ ꝛ gradum ſubduplūꝫ raritatis:ſicut ſatis argutū eſt vbi tractatum eſt de intēſione ꝛ remiſſione. Si ḡ rari' ꝛ denſi' equeuelocit rarefiāt:ſeq̄t ꝙ rari' citi' deueniet ad graduꝫ dupluꝫ raritatis q̄ denſius : ꝛ ſicut foret rari' ſic maioris quātitatis foret. ergo citius foret rarius duple quātitatis q̄ denſius.

Si ergo in pn° forent eq̄lia: ſeq̄t ꝙ denſius minorē q̄titatem acq̄ret ꝙ̄ rari9. ¶ Contra iſtam pōnē ſunt argta que pro alijs pōnib9 ſunt adducta. ¶ Cōtra ēt iſtā pōnē arr ſic. Sit .a. rari9 ꝙ̄ .b. ⁊ rarefiāt equevelr: ſint tn̄ eq̄lis q̄titatis in pn°: tūc ſi .a. acq̄ret maiorē q̄titatē ꝙ̄ .b. ⁊ raritas non eſt aliud niſi remota iacētia ptiū abinuicē. ḡ maiorem remotā diſtantiā punctoꝝ abinuicē acq̄ret .a. ꝙ̄ .b. ⁊ per ɔñs maiorē raritatē. ɔñs fl̄m: eo ꝙ equevelr rareficient. ḡ ⁊c̄.

Pro iſtis ſuſtinēda eſt vltia pō: que .ſ. ponit ꝙ denſitas ſe hʒ poſitiue: ⁊ ꝙ ex vniformi rarefactiōe ⁊c̄. ſeq̄t difformis acq̄ſitio q̄titatis. ¶ Iō ad pm — Ad pm
argm q° argr pro z° pōne .ſ. ꝙ raritas ſe hʒ poſitiue cuꝫ arr ꝙ inter oēꝫ gm raritatis ⁊ gm infim raritatis eſt latitudo ifinita. negat id: ⁊ tūc qñ arr ⁊ ponit ꝙ aliqđ rarū rarefiat in infim: ⁊ q̄rit nūq̄d raritas ſit tanta ſic q̄titas vel maior vel minor: dī ꝙ raritas puatiue ɔſiderata nulli poſitio hʒ eq̄litatē vel ineq̄litatē cōparat vt de intēſione ⁊ remiſſione eſt pdictū: ideo negāda eſt ei9 diuiſio pro oi ei° pte: ⁊ id argm fundat ſuper h ꝙ raritas foret maior vel minor vel eq̄lis illi q̄titati: iō illud argm nō pcedit ɔ pmā ptē illius
Ad aliđ pōnis. ¶ Tūc ad arm ɔ z° ptē illi9 pōnis cū arr pro z° pte z° pōnis: ⁊ ponit ꝙ .a. ſit vnū rarū vnir rarefactū ſm tps ⁊ hʒ ſubs: ⁊ arguit ꝙ ſi raritas ⁊ ſua q̄titas in gradu aliquo corrñdeāt ⁊ eque pportionabilr maiorat raritas cū q̄titate: raritas vnifor maiorat. ḡ q̄titas vnifor maiorat. ¶ Itē ſi q̄titas ſit maior vel minor iſta raritate illđ ſeq̄t ꝙ ibi arr. dicit ḡ ꝙ raritas nō corrñdet ſue q̄titati in g° ⁊ nec eſt ea maior nec ēt minor vt pdictū eſt: ⁊ id argm fun‑
Ad vltm dat ſupra iſtā diuiſionē: ⁊ ideo nō pcedit. ¶ Ad vltm arm qñ arguit ɔ illā pōnē ſic: ſi .a. acq̄reret maiorē q̄titatē .b. ⁊ eſt eq̄le .b. ḡ maiorē raritatē acq̄ret .a. ꝙ̄ .b. negat ɔñs: q2 raritas nō ſolū ſeq̄t remotā iacētiā punctoꝝ abinuicē: ſed ſeq̄t remotionē pūctoꝝ cū mā pportionata vel in cōparatione ad mām: vt ſi ſint duo eq̄lia: ⁊ vnuꝫ hēat plus de mā ꝙ̄ aliud: id qđ plus hʒ de mā eſt denſi9 ſicut eſt de pedali ignis ⁊ de pedali terre: ⁊ ideo lʒ duo eq̄lia rarefiāt p totū ⁊ vnū maiorē q̄titatē acq̄ret ꝙ̄ reliquū, nō ſeq̄t ꝙ ipſum maiorē acq̄rat raritatē, niſi addat ꝙ mãe illoꝝ forent eq̄les. ſed in caſu poſito .a. hʒ minorē mãꝫ ꝙ̄ .b. eo ꝙ eſt rari9 ꝙ̄ .b. ⁊ eq̄lis q̄titatis cū eo. ideo lʒ .a. acq̄rat maiorē q̄titatem ꝙ̄ .b. nō ſeq̄t ꝙ maiorē raritatē acq̄rat .a. ꝙ̄ .b. ⁊ ſic nō
ɔ pōnē pcedit argm ɔ illaꝫ pōnē. ¶ Alr arr ɔ illā pōnē vltimā: q2 ex illa ſeq̄t id incōueniēs qđ ſeq̄t ex oib9 p̄oib° pōnibus .ſ. ꝙ aliq̄d eſt rarū vnifor difforme nulli gradui raritatis corrñdens. Sit eniꝫ .a. vniformiter difforme rarū terminatū ad nō gm raritatꝫ: tūc ꝙ id nulli gradui corrñdeat, pbo: q2 ſi eſt ifinite dēſuꝫ: ergo nō eſt rarū. Et ꝙ ſit ifinite denſuꝫ pbo: q2 diuidat in ptes ppor̄lr verſus extremum remiſſius: tūc pma ps ppor̄lr eſt aliq̄lr dēſa. z° in duplo denſior. ⁊ z° in q̄druplo denſior: ⁊ ſic in ifinitū: ⁊ eo ꝙ ſe hʒ denſitas poſitiue. ḡ totū eſt ifinite denſuꝫ. ɔñs đ intēſione tenet. ⁊ añs pʒ: q2 p° ps ppor̄lr eſt aliq̄lr rara: ⁊ z° in du° min9 rara ⁊ ſic deinceps: ⁊ ſicut aliq̄ ps eſt alia min9 rara: ita eſt ipſa eadem denſior per ſargum. ḡ p° ps ppor̄lr eſt aliq̄lr denſa. z° in duplo denſior ⁊ ſic deinceps. Hoc ſic cōfirmat. mã .a. eſt infinita ⁊ q̄titas finita: ſoluꝫ ḡ totū .a. eſt infinite denſuꝫ. pbo ɔñtiā: q2 raritas ɔſequit remotionē punctoꝝ abinuicēꝫ cū mā pportionata. ḡ ſicut mã maior eſt in eq̄li quātitate ita denſitas eſt maior. ſi ḡ mã ſit infim ⁊ q̄titas ſoluꝫ finita: ſeq̄t ꝙ totū eſt infinite denſuꝫ. ſed ſic eſt de .a. ḡ .a. eſt infinite denſuꝫ: ⁊ ꝙ .a. ſit finite q̄titatis pʒ per caſuꝫ. Et ꝙ mã ſit ifinita pbat. Naꝫ tanta eſt mã ſcđe ptis ppor̄lr ſicut p°. pbo: q2 z° pars propor̄lr eſt in duplo denſior ꝙ̄ eſt p°: ⁊ in duplo minoris q̄titatis ꝙ̄ eſt p°: ergo in illa eſt eq̄lis mã ſicut in p°. ɔñtia pʒ: q2 ſi z° pars ppor̄lr rarefiet ad ſuū dupluꝫ in fine erit eq̄lis q̄titatis cū pma ⁊ eq̄lis raritatis. ḡ mã ſua erit eq̄lis mãe p° ptis ppor̄lr: ſed nō acq̄ret aliquā mãꝫ per rarefactionē. ḡ nūc eſt mã ſcđe ptis ppor̄lr tanta ſicut mã p° ptis pportionalis: ⁊ per idē mã z° ptis pportionalis eſt tāta ſicut eſt mã z° ptis pportioālis ⁊ ſic in ifim. ḡ .a. ɔtinet ifinitas mãs eq̄les nō cōicantes. ergo mã ipſius .a. eſt infinita: ⁊ .a. eſt finite q̄titatis ſolum: ḡ .a. eſt infinite denſuꝫ: ⁊ per ɔñs nō eſt rarū. Ex iſtis ſeq̄t iſta ɔclo ꝙ aliq̄d eſt rarū qđ nō eſt rarum: q2 .a. eſt rarū: q2 eſt vnifor difforme rarū. ⁊ nō eſt rarū: q2 eſt infinite denſuꝫ. ¶ Pro iſtis negat vtraq3 ɔclo: ⁊ tūc ad caſuꝫ — Reſpo.
poſitū ꝙ .a. ſit vnū vnifor difforme rarum terminatū ad nō gradum raritatis. negat caſus. naꝫ ex quo raritas ſe hʒ puatiue: ſeq̄t vt argutū eſt ꝙ ab oi gradu raritatꝫ vſq3 ad nō graduꝫ raritatis eſt latitudo ifinita: q2 nō gradus raritatis eſt ifinit9 gradus denſitatis. ſed ipoſe eſt ꝙ aliq̄d ſit vniformiter difforme aliq̄ale mediāte latitudine ifinita: ideo caſus eſt ipoſſis: ſic eſt ipoſe ꝙ aliq̄d ſit vniformiter difforme remiſſuꝫ ad nō graduꝫ remiſſionis terminatū: q2 illud poneret ꝙ aliqđ foret vniformiter difforme intēſuꝫ ad graduꝫ ifim terminatū qđ tn̄ icludit ɔdictionē: iō arm nō pcedit qđ fundat ſupra impoſſi ⁊c̄.

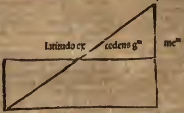
His expeditis ſeq̄t tangere dubia. nūq̄d oē denſum difforme cui9 vtraq3 medietas eſt vniformis vel ēt vnifor difformis ſuo gradui me° corrñdeat: ⁊ ideꝫ q̄rit de raritate. ¶ Et hoc nō ſit veruꝫ — Ad ptē negam.
multiplr arguit. Prio ſic. Sit .a. vnū tale difforme dēſuꝫ vl rarū: cui9 vtraq3 medietas eſt vniformis ⁊ rarefiat medietas denſior ad illuꝫ gm mediū: ⁊ cōdenſet rarior ad eūdeꝫ gm: quo poſito arguit ſic. per maiorē ptē .a. ɔtinue erit depditio denſitatis ꝙ̄ acq̄ſitio: ⁊ equevelr erit depditio ſicut acq̄ſitio: ḡ ſeq̄t ꝙ totū rarefiet. ɔñs pʒ: ſicut de calido vel frido vel aliquo tali. naꝫ ſeq̄t, per maiorē ptē intēdet caliтas ꝙ̄ ſit ps per quā remittet: ⁊ tantū intēdit q̄tuꝫ remittit hoc in quo eſt iſta calitas: ḡ totuꝫ calefit: vel ſaltem ſeq̄t ꝙ calitas intēdet. naꝫ ad hoc ꝙ calitas exiſtēs in minori pte ɔtinue reſtauret remiſſionē factā in maiori parte req̄rit ꝙ ipſa ɔtinue intēdat: pʒ inſpiciēti dicta in caplo đ intēſione. ⁊ añs arguit. Et eniꝫ ſit eq̄lis depditio ſicut acq̄ſitio raritatis, tenet per hoc ꝙ vna medietas eq̄lr diſtat a gradu me° inter illas medietates ſicut alia: ⁊ vna vniformiter remittet ad illuꝫ gm: ⁊ alia vniformiter intendet in eodeꝫ tpe ad eundē gradū vt ſuppono: ⁊ ꝙ per maiorem partē ɔtinue erit intēſio raritatis ꝙ̄ depditio, pʒ. nam illa pars que nūc eſt medietas dēſior ɔtinue rarefiet. ḡ ɔtinue erit maior q̄titas ꝙ̄ nūc eſt: ⁊ alia medietas ɔtinue ɔdenſabit. ḡ i° ɔtinue erit minoris q̄titatis ꝙ̄ nūc eſt: ⁊ per iſtā ptē que nūc eſt medietas denſior ſoluꝫ erit rarefactio ⁊ p aliā cōdenſatio. ḡ per maiorē ptē ɔtinue erit depditio denſitatis ꝙ̄ acq̄ſitio raritatis. ḡ ſeq̄t ꝙ totū ɔtinue rarefiet ⁊ in fine corrñdebit ſoluꝫ illi gradui medio denſitatis: ergo nūc corrñdet gradui intēſiori denſitatis ꝙ̄ eſt ille gradus medius. ¶ Scđo ad idē ſic. Sit vna medietas .a. rara vt xy. ⁊ alia vt duo: tunc ſi corrñdeat gradui me°: ſeq̄t ꝙ per ſolaꝫ rarefactionē ⁊ motū ɔñteꝫ fiet aliq̄d denſius ꝙ̄ nūc eſt: q2 ponit ꝙ medietas que eſt rara vt duo, fiat in duplo rarior .ſ. ḡdu vt .iiij. tunc ſic totū .a. corrñdet gradui vt .vij. ga .vij. eſt gradus medi9. deducat ḡ ois alius mot9 preter motū ɔñteꝫ iſtā rarefactionē .ſ. que eſt acq̄ſitio quātitatis: tunc ibi nō eſt alius mot9 niſi mot9 rarefactionis ⁊ motus ɔñs ipſaꝫ: ⁊ tn̄ totū ɔdenſabit. Hoc ſic arguit. ſit nūc totū bipedale tunc in fine erit medietas rarefacta bipedalis quātitatis .ſ. in ſexqaltero minor toto vt pʒ: eo ꝙ pportionabilr ſicut aliq̄d ſit rari9: ita ſit maioris quātitatis. ḡ denoīatio illi9 raritatis quo ad totū erit ſubſexqaltera ad gm

iſtum

iſtū vt 4ᵐ:⁊ per ꝯñs erit minoꝛ ꝙ̄ eſt gradus vt 3ᵐ:⁊ alia
pars.ſ.rara vt.12.ſufficiet totū denoiare gᵘ ſolū vt 4ᵐ:q̄
illa pars erit tūc 3ᵃ pars totꝰ.ḡ totū corridebit gradui re-
miſſioꝛi ꝙ̄ eſt gradus vt.vij.⁊ p ꝯñs ꝯdēſabit.⁊ ꝯñs ad qḋ
deducit̄ eſt ipoſſe.Si.n.erit ſolū rarefactio p totū,totū dʒ
3° rareſieri ⁊ nō ꝯdēſari.℄ 3° ſic argᵗ. Sit.a.vnū tale:cuius
vna medietas ſit rara.c.gᵘ:⁊ alia gᵘ in duplo remiſſioꝛi ꝙ̄
eſt.c.gradus:⁊ ſit.b.vnū aliud:cuiꝰ vna medietas ſit vni-
foꝛmis.c.gᵘ rara:⁊ alia medietas eiꝰ ſit rara gᵘ in duplo re
miſſioꝛi ꝙ̄ eſt medietas minꝰ rara.a.⁊ ſic de aliis infiⁿⁱˢ:ſic
ꝙ cuiuſlibet 1ᵘˢ ſit vna medietas vniꝰ rara.c.gᵘ:⁊ cuiuſli-
bet poſterioꝛis ſit medietas alia in duplo minꝰ rara ꝙ̄ eſt
medietas minꝰ rara imediate p̄cedēs:⁊ ſint oīa eq̄lia ꝙ̄ti-
tatiue.ſ.pedalis ꝙ̄titatis:⁊ capio gᵐ ſubduplū ad.c.qui ſit
d.tūc ſic arᵗ.Cuiuſlibet illoꝝ eſt meᵗᵃˢ vna rara.c.gᵘ:⁊ alia
certo gᵘ remiſſioꝛi.ḡ ſi q̄libet illoꝝ corridcat ḡdui me-
dio iter eiꝰ mediᵗᵃˢ:ſeqꝛ ꝙ q̄libet illoꝝ gradui inteſioꝛi
ꝙ̄ eſt.d.corridet.qḋ ſic argᵗ:q2.c.gradus eſt duplus ad.d.
gᵐ:⁊.c.gradus nō eſt duplus ad gᵐ meᵐ iter ipm ⁊ aliquē
aliū gᵐ q̄cūqꝫ ſit ille.ḡ q̄libet talis gradus eſt inteſioꝛ.d.gᵘ.
ꝯña ⁊ maioꝛ patēt.⁊ minoꝛ argᵗ:q2 oē cōpoᵐ ex duobꝰ in-
eq̄libꝰ eſt duplū ad mediū iter illa.⁊ cū cōpoᵐ ex.c.gradu
⁊ q̄cūqꝫ alio remiſſioꝛi eſt p̄ciſe duplū ad mediū iter illos
gradus:ſeqꝛ ꝙ.c.ḡdus nō erit duplus ad illū gᵐ.ꝯña te-
net ⁊ añs pbat̄ vt argutū eſt in ꝯne 3ᵃ de motu locali:⁊ po
ſtea arguet̄ in de inductōe ḡdus ſūmi.℄ Ex his ḡ ſeqꝛ ꝙ
ḡdus mediꝰ iter mediᵗᵃˢ inteſioꝛē in raritate cuiuſlibet il
loꝝ ⁊ mediᵗᵃˢ remiſſioꝛē eſt inteſioꝛ.d.gᵘ.ſi ḡ tale rarū gra
dui ſuo medio corridcat.pʒ ꝙ q̄libet illoꝝ eſt rarius ꝙ̄
ſi eēt vniforme.d.ḡdu.ſʒ ꝯñs falſum.ḡ ꝯclō falſa.falſitas
ꝯñtis pʒ.nā q̄cūqꝫ mā data plus ꝯtinet aliqḋ illoꝝ:⁊ q̄li-
bet illoꝝ eſt pedalis ꝙ̄titatis:ḡ iſinite modice rarū eſt ali-
qḋ illoꝝ.ꝯña tenet iuxta pōnē ponētē penes qd attēdit̄
raritas.⁊ añs argᵗ. Nā medietas minꝰ rara.a.aliqd ꝯtinet
de mā:⁊ medietas minus rara.b.in duplo plus de mā:q2
eſt in duplo dēſioꝛ in ꝙ̄titate eq̄li ⁊ tertij illoꝝ eſt medie-
tas minus rara ꝯtinens de mā in duplo plus ꝙ̄ medietas
corridēs.b.q2 eſt illa in duplo dēſioꝛ:⁊ ſic in iſiⁿ.ḡ iſinitā
mām ꝯtinet aliqḋ illoꝝ:⁊ q̄libet illoꝝ eſt pedalis ꝙ̄tita-
tis:ḡ infinite dēſum eſt aliqḋ illoꝝ:⁊ p ꝯñs nō eſt verū ꝙ
q̄libet illoꝝ corridcat gradui medio inter eiꝰ mediᵗᵃˢ:⁊
4° et gradui inteſioꝛi.d.ḡ ꝯclō falſa. ℄ 4° ſi id ſit verū de ra-
ro difformi ponat̄ ꝙ id ſit.a.cuiꝰ medietas minꝰ rara rare-
fiat ad illū gᵐ mediū:⁊ alia medietas ꝯdēſet̄ ad eūdeꝫ gᵐ
⁊ ſit.b.medietas minus rara:⁊.c.alia medietas.tūc arguit̄
ſic.Raritas.b.ē minoꝛ raritate.c.⁊ eq̄uelocᵗ itēdet̄ raritas
b.ſicut raritas.c.remittet̄:ḡ velociꝰ ꝓportionabilr maioꝛa-
bit̄ raritas.b.ꝙ̄ raritas.c.remittet̄.ꝯña tenet:eo ꝙ inter
gᵐ mediū iter duos gradus ad gᵐ remiſſioꝛē iſtoꝝ eſt ma
ioꝛ ꝓpoꝛᵒ ꝙ̄ eſt gradus inteſioꝛis iſtoꝝ ad illū gᵐ mediū:⁊
totū añs eſt poſſibile.cuꝫ ḡ eque ꝓportionabilr ꝯtiᵉ maio-
rabit̄ ꝙ̄titas cū raritate:ſeqꝛ ꝙ velociꝰ ꝓportionabilr ꝯti-
nue maioꝛabit̄ ꝙ̄titas mediᵗᵃˢ.a.que rareſiet ꝙ̄ minoꝛa-
bit̄ ꝙ̄titas mediᵗᵃˢ ꝯdēſate:⁊ p ꝯñs velocius ſimplr ma-
ioꝛabit̄ ꝙ̄titas vniꝰ medietatis ꝙ̄ minoꝛabit̄ alterius:ergo
iſte medietates nūc ſunt eq̄les.ꝯña ſatis pʒ:⁊ ſi ſic,ſeqꝛ
ꝙ ꝙ̄titas in fine tpiꝰ.a.erit maioꝛ ꝙ̄ nūc eſt in mā equali.
ḡ tūc erit rarius ꝙ̄ nūc eſt:⁊ p ꝯñs cū tūc erit in gradu illo
medio:ſeqꝛ ꝙ nūc corridet gradui remiſſioꝛi ꝙ̄ eſt iᵉ gra
dus mediꝰ.℄ Ideo forte negat̄ ꝯña:q2 nō in toto tpe me-
dio totū.a.deberet rareſieri:ſed.a.aliqn̄ ſaltē dʒ rareſieri.
Hoc nihil facit ad ꝓpoᵐ.ſi.n.cōtinue rareſieret:ſeqꝛ ꝙ in
fine erit rarius ꝙ̄ nūc eſt:⁊ tūc erit ſub gradu medio:ergo
nunc corridet gradui remiſſioꝛi gradu medio. ℄ Illa tñ
niſio ſimplr excludit̄.Si eīꝫ.a.corridcat gradui medio:
ſequit̄ ꝙ ipm erit tāte quātitatis ſicut foret,vnū in gradu
illo medio equalr hñs de mā ſicut hʒ.a.Et ſi ſic ſit.d.tale
vniforme in gradu medio tātū de mā hñs ſicut.a.⁊ equa-
lis quātitatis cū.a.⁊ arguit̄ hoc eē falſum:q2 in fine.a.erit
vniformiter rarū gradu medio:⁊ tūc erit maioris ꝙ̄tita-
tis ꝙ̄ nūc eſt.d.ḡa maioꝛis quātitatis ꝙ̄ nūc ipm eſt.cuꝫ ḡ
ipoſſe eſt capere duo vniformiter rara eodeꝫ gradu equalr
hñtia de mā:q̄rū vnū ſit maioꝛis ꝙ̄titatis ꝙ̄ reliquū:⁊.a.
in fine erit vniforme gradu medio.ḡ nūc coꝛreſpōdet gra
dui remiſſioꝛi gradu medio:⁊ p ꝯñs nō medio:qḋ tñ fuit
poſitū.℄ Uel ſic arguit̄.Ponat̄.b.eē eq̄lis ꝙ̄titatis cū.a.
hñs equalr de mā ſic habet.a.⁊ vniformiter rarū:tūc.a.b.
ſunt eque rara iuxta pōneꝫ ponētē penes qd attēdit̄ rari-
tas:⁊.b.eſt vniforme gradu remiſſioꝛi ꝙ̄ gradu medio:ḡ
a.nō corridet gradui iſti medio. Añs arguitur:q2 in fine
erit.a.rarū gradu iſto medio:⁊.b.tūc erit minus rarum ꝙ̄
tūc erit.a.q2 minoꝛis ꝙ̄titatis cum mā eq̄li:vt p̄dicit̄:ḡ.b.
nūc eſt rarū gradu remiſſioꝛi medio.ꝯña tenet per h̄ me-
diū ꝙ ipoſſe eſt duo eē vniformiter rara eodeꝫ ḡdu ineq̄-
lia in ꝙ̄titate equalr hñtia de mā.ſeqꝛ ḡ cum.a.corridet
b.vniformi ꝙ ipm corridcat gradui remiſſioꝛi medio.ḡ
ꝯclō falſa.℄ Itē 5ᵒ pōt argui ꝯtra illā.Sit.a.vniformiter 5°
difforme rarū ad nō gradū terminatū.⁊ arguit̄ ꝙ id non
corridet gradui medio.ipm.n.eſt iſinite dēſum:eo ꝙ in iſi
nitū ꝯtinet de mā ⁊ eſt finite quantitatis:vt argutū eſt in
penultimo argᵗᵒ ꝯtra pōnem ponētē ꝙ raritas ⁊ denſitas
ſe hñt poſitiue:appareret ḡ id ꝓpoſitum foꝛe falſum.

Qḋ tamen id ſit verū arguit̄.Et pono in caſu pti- Ad ptez aſſuᵐᵖᵗᵃᵐ.
cculari de denſo difformi:cuius vtraqꝫ
medietas eſt vniformis:⁊ ſit.a.tale:cuiꝰ vna medietas ſit
denſa vt.iiij.⁊ alia medietas vt.viij.⁊ ſit ꝙ̄titas vtriuſqꝫ
mediᵗᵃˢ tripedalis:⁊ remittat̄ denſitas illiꝰ medietatis vt
octo vſqꝫ ad ſex:qui eſt gradus mediꝰ inter illas mediᵗᵃˢ:
⁊ itēdat̄ eq̄uelocᵗ dēſitas alteriꝰ medietatis ad gradū illū
vt ſex:⁊ tūc ſic argᵗ.Medietas dēſioꝛ.a.fiet in ſexqaltero
minus denſa ꝙ̄ nūc eſt:eo ꝙ iter gradū vt octo ⁊ gᵐ vt ſex
eſt ꝓpoꝛtio ſexqaltera:⁊ ꝓpoꝛtionabilr ſicut dēſitas iſta fiet
minoꝛ:ita ꝙ̄titas iſta erit maioꝛ.ḡ ꝙ̄titas iſtiꝰ medietatis
tūc erit in ſexqaltero maioꝛ ꝙ̄ nūc eſt:⁊ nūc eſt iſta tripe-
dalis ꝙ̄titatis:ḡ tūc erit q̄dripedalis quātitatis.Silr alia
medietas fiet in ſexqaltero denſioꝛ ꝙ̄ nūc eſt:eo ꝙ.iiij.ad
ſex eſt ꝓpoꝛtio ſexqaltera:ḡ illa fiet in ſexqaltero minoꝛis
ꝙ̄titatis ⁊ nūc eſt tripedalis ꝙ̄titatis:ḡ tūc erit bipedalis
ꝙ̄titatis ſolū ⁊ alia medietas q̄dripedalis ꝙ̄titatis:vt ar-
gutū eſt.ḡ totū tunc erit ſex pedū:⁊ p ꝯñs tāte ꝙ̄titatis ſicut
nūc eſt in eadē mā:ḡ tūc erit eque dēſum ſicut nūc eſt.ꝯña
tenet iuxta pōneꝫ p̄dictā:⁊ ſi ſic ſeqꝛ ꝙ totū corridet tali
gradui.℄ Pro iſto forte dī negādo ꝯñtiā vltīām in tali ca-
ſu:q2 pōt dici ꝙ totū rareſiet:q2 p maioꝛē ptē erit rarefa-
ctio ꝙ̄ ꝯdēſatio.℄ Cōtra.⁊ ſi hoc dicat̄ argᵐ ſatis p̄cedit.
Sit.b.vniforme rarū eq̄lis ꝙ̄titatis cū.a.difformi:⁊ hñs
equalr de mā ſicut.a.tūc.b.eſt eque dēſuꝫ cū.a.q2 eq̄lis ꝙ̄ti-
tatis hñs equalr de mā:⁊.b.eſt dēſuꝫ gᵘ iſto medio:ḡ dēſi-
tas.a.corridet gradui ſuo medio.ꝯña ſatis pʒ et maioꝛ
ſilr:⁊ minoꝛ ſic argᵗ.b.eſt eque dēſuꝫ ſicut erit.a.in fine tpiꝭ
⁊ tūc erit.a.vniforme vt ſex.ḡ ⁊c̄.Añs arguit̄:q2.b.eſt nūc
eq̄lis ꝙ̄titatis ſicut tūc erit.a.⁊ equalr hʒ de mā ſicut tūc habe-
bit.a.ḡ.b.nūc eſt eque dēſuꝫ ſicut tūc erit.a.ꝯña ⁊ maioꝛ ſa-
tis patēt:eo ꝙ.b.nūc eſt tāte ꝙ̄titatis ſicut eſt.a.⁊.a.eſt tante
ꝙ̄titatis ſicut erit in fine:⁊ minoꝛ ſilr pʒ:q2.b.tm̄ hʒ de mā
ſicut hʒ.a.⁊ nihil de mā acqret.a.nec deꝑdet in toto tpe.pʒ:
ḡ ꝙ.b.eſt dēſuꝫ gᵘ vt ſex:⁊ eque dēſuꝫ eſt.b.ſicut eſt.a.ḡ ſeqꝛ
ꝙ dēſitas.a.ſuo medio ḡdui corridet.⁊ ſic in oī alio caſu
inuenies p calculatiōeꝫ.Ad idē ḡ fiat argᵐ gn̄ale.Sit.a.tale
dēſuꝫ difforme:cuius vtraqꝫ medietas eſt vniformis:⁊ ſic.

medietas dēſioꝛ excedit medie^{tis} rarioꝛē p certū exceſſuꝫ
in dēſitate ꝛ mā. capiat̄ ḡ exceſſus māe ꝛ eēt dēſitatis in t^{a}
q̄ntitate: tūc ſi medietas exceſſus eēt ablata ab vna medie
tate ꝛ addita alteri medie^{ti}, ꝯſuata q̄ntitate illi^{9} māe, ꝛ eēt
ptis reſidue māe, totū nec ꝯdēſaret̄ nec rarefieret: q2 tota
t^{a} mā ꝯti^{c} eēt in quātitate eq̄li: ꝛ in fine totū eēt vniforme
g^{o} medio: eo q medietas exceſſus eēt ablata ab vna me-
dietate ꝛ addita alteri: ḡ nūc totū coꝛrñdet illi gradui me-
dio. Uel ſic arg^{r}. dēſitati medie^{tis} dēſioꝛis in quātitate ei^{9}
aliq̄ mā coꝛrñdet: vt notuꝫ eſt: ḡ ꝛ iſti medie^{ti} exceſſus in
eadē quātitate certa mā coꝛrñdet que ſit. c. tūc auferat̄. c.
mā a medie^{te} denſioꝛi in iſta quātitate: ꝛ addat̄ alteri me-
dietati q̄ſi per coextēſionē: ꝛ habeat reſidua mā vtriuſq̄
medie^{tis} q̄ntitatē pſtinā: ꝛ ſeq̄t̄ q totū nec ꝯdēſabit̄ nec ra-
refiet: eo q tota quātitas ei^{9} ꝯti^{c} manebit tāta ſicut eſt nunc
p caſuꝫ cū mā eadē: ꝛ in fine totū erit dēſuꝫ g^{o} iſto medio.
ḡ ſeq̄t̄ nūc q totū coꝛrñdet iſti gradui medio. Et ſi caſus
negat̄ arg^{r} cōditionalr̄ ſic. Si medietas exceſſus dēſitatis
eiꝫ mā ſibi coꝛrñdēte in quātitate tāta ſicut eſt medietas. a.
coꝛrñdēs eēt ablata ꝛ coextēſa cū alia dēſitatis medieta-
te totū nec rarefieret nec cōdēſabit̄ ꝛ fieret vniforme tali
g^{o} medio: ḡ nūc tali gradui medio coꝛrñdet. ꝯña cū añte
p p̄cedētia ſatis pꝫ. ¶ Itē arg^{r} de vnifoꝛ^{r} diffoꝛmi denſo.
Sit eiꝫ. a. vnifoꝛ^{r} diffoꝛme dēſuꝫ ſiue terminatū ad g^{m} ali-
quē ſiue ad nō g^{m} in extremo remiſſioꝛi: tūc ſic arg^{r}. Me-
dietas dēſioꝛ excedit g^{m} mediū p latitudinē dēſitatis ab t^{o}
ad nō g^{m} terminatā: ꝛ ſit vtraq̄ medietas grã arg^{ti} peda-
lis quātitatis: tunc illi exceſſui in pedali^{r} q̄ntitate certa mā
coꝛrñdet: que ſi eēt ablata a medie^{te} dēſioꝛi ꝛ addita me-
dietati rarioꝛi: ita q extre^{m} itēſius illi^{9} latitudis denſitatis
exceſſus eēt ad extre^{m} rarius medie^{tis} rarioꝛis: ꝛ non gra-
dus v̄ſus pūctū me^{m} totū fieret vnifoꝛ^{r} rariꝫ g^{o} t^{o} medio
vt ꝯſtat: ꝛ totū nec rarefiet nec ꝯdēſabit̄: eo q tota quāti-
tas ꝯti^{c} eēt tāta ſicut nūc eſt cū idētitate māe: ḡ nūc totum
iſti gradui medio correſpōdet: qḋ fuit pbādum.



Nota ¶ Pro quo eſt nōn^{m} q ſi ab aliq̄ dēſo certe q̄ntitatis eſſet
ablata aliq̄ certa pars illi^{9} dēſitatis p totū cū mā ſibi in il-
la q̄ntitate coꝛrñdēte, totū reſiduū manebit eq̄lis q̄ntitatꝫ:
vt ſi eēt pedale dēſum aliq̄ g^{o} ꝛ medietas dēſitatis p totū
eēt ablata: ita q reſultaret vnū in duplo min^{9} dēſuꝫ ꝛ me-
dietas māe eēt ablata q̄ntitas reſidue māe: tūc eēt tāta ſicut
nūc eſt toti^{9} māe. Sic. n. iſti toti māe in q̄ntitate tota illa dē-
ſitas coꝛrñdet: ita medietati eiuſdē māe cū quātitate eq̄li
medietas dēſitatis coꝛrñdet. Habeat eiꝫ. a. aliquā māꝫ in
pedali quātitate: ꝛ ſit. b. eque dēſuꝫ cū. a. cū mā ſubdupla.
ꝛ pꝫ q. b. eſt in duplo minoꝛis quātitatis q̄. a. iuxta ꝓpoſi
ta. Si ḡ. b. rarefiet ad q̄ntitatē duplā. ſ. ad q̄ntitatēꝫ. a. ip̄m
fieret in duplo min^{9} dēſum q̄. a. ḡ medietas illi^{9} dēſitatis
in quāti^{te} eq̄li māe ſubduple coꝛrñdet ſicut denſitati toti in
illa quāti^{te} tota mā coꝛrñdet. pꝫ ḡ ꝯcl̄o pbāda. ſequit̄ ḡ q
omne dēſuꝫ ꝛc. ſuo gradui medio coꝛrñdet. ¶ Itē arguit̄
de raritate. Si. n. dēſuꝫ diffoꝛme ſuo medio gradui coꝛrñ-
det: ſeq̄t̄ p ideꝫ de raro: q2 nō differūt inter ſe realr̄ raritas
ꝛ dēſitas. poſitio tñ que ponit q tā raritas q̄ dēſitas ſe hꝫ
poſitiue ꝯcederet h de dēſo tali qḋ coꝛrñdet gradui me-
dio ꝛ negaret de raro: imo dī q rariꝫ hoꝫ diffoꝛme gradui
remiſſioꝛi raritatis q̄ eſt gradus medi^{9} coꝛrñdet: q2 ſi re-
duceret̄ ad g^{m} illū me^{m} toti in fine eēt maioꝛis quāti^{tis} q̄
in p̄n^{o}: vt arguit̄ in arg^{to} 4° ꝯtra iſtā ꝯnēm: ꝛ ſic in fine eēt
rarius q̄ in p̄n^{o}. Hec tñ poſitio in p̄cedētibus improbat̄:
vbi arguit̄ q raritas poſitiue ſe nō pōt habere.

Ideo dicit ꝯcedēdo ꝯnē: ꝛ dī q lati^{do} dēſitatꝫ ꝛ ra- p^{o} ad du-
ritatis realr̄ eadē eſt: ꝛ ēt dēſitas ſe hꝫ bium.
poſitiue. ꝛ ideo vnifoꝛ^{r} maioꝛat̄ denſitas que ſignat̄ p nu-
merū aliquē: ꝛ multiplicato nūeri vt ſi nūc eēt dēſitas vt
4^{or}: ꝛ fieret dupla illa fieret vt octo. ꝛ eꝯ mō de raritate,
nā ſi raritas eēt vt 4^{or}: ꝛ duplaret̄ in fine ſignaret̄ p duo:
ꝛ ſic de oī alio poſitiuo ꝛ ſuo p̄uatiuo eſt itelli^{m}: vt appet,
vbi tractat̄ de iten^{c} ꝛ remiſſione q̄li^{tis}. Et ſic dī q ſic ꝯcl̄o
ē vera de dēſitate: ita ēt eſt vera de raritate ꝯſide^{to} extre^{m}.
itēſius in dēſitate. eꝯ modo quo ꝯſiderat̄ in raritate ꝛ eꝯ.
¶ Et tūc ad ar^{m} in opp^{m} q̄n p arg^{r} q nō negat̄ illa ꝯña p Ad p^{m}
maioꝛē ptēꝫ ꝯti^{c} erit dep̄ditio dēſitatis q̄ acq̄ſitio ꝛ eq̄ue-
loꝛ: ḡ totū ꝯti^{c} remittet̄ in dēſitate. dēſitas. n. ꝯſeq̄t̄ q̄ntita^{tem}
in cōparatione ad māꝫ. Ideo lꝫ p q̄ntitcūq̄ modicū fieret
acq̄ſitio dēſitatis: ꝛ p q̄ntitcūq̄ magnū dep̄ditio eiuſdē: dū
tñ p illā dep̄ditionēꝫ dēſitatis eq̄lis ſit acq̄ſitio q̄nti^{tis} ſicut p
acq̄ſitionē dēſitatis ſit dep̄ditio q̄nti^{tis} manēte eq̄lr̄ de mā,
totū nec ꝯdēſabit̄ nec rarefiet: ꝛ tūc tota quātitas in eadē
mā manebit eq̄lis. Uñ ſi fiat acq̄ſitio dēſitatis per quāti-
tcūq̄ magnā ptē: ꝛ eq̄lis dep̄ditio dēſitatis per quātitcūq̄
modicā ptē: ita tñ q minoꝛ quātitas dep̄det̄ per iſtā ꝯdē-
ſationē q̄ acq̄rat̄ per rarefactiōēꝫ, totū rarefiet. Uñ ſi. a.
eēt octo pedaliū: ꝛ 4ª pars eius. ſ. bipedalis eſſet denſa vt
duo: ꝛ reſidua pars dēſa vt. 16. que. ſ. eſt ſexpedaliuꝫ: ꝛ iſta
pars dēſa vt duo minoꝛet̄ in dēſitate dep̄dēdo vnū in dē-
ſitate ꝛ tota pars reſidua ꝯdēſaret̄ acq̄rēdo vnū de denſi-
tate: maioꝛ quātitas eēt acq̄ſita illi pti rarefacte q̄ a tota
pte reſidua eēt dep̄dita. Iſta. n. pars fieret in duplo min^{9}
dēſa q̄ nūc eſt: ḡ ei^{9} quātitas maioꝛabit̄ ad duplū: ꝛ p ꝯñs
acq̄ret bipedale ꝛ tota pars reſidua acq̄ret ſolum vnū de
dēſitate: ḡ fiet in ſexquiſextodecuplo dēſioꝛ: q2. 17. ad. 16.
eſt ꝓpoꝛ^{o} t^{a} dicta: ꝛ p ꝯñs ſua quātitas fiet in t^{a} ꝓpoꝛ^{ne} mi-
noꝛ q̄ nūc eſt: ꝛ illa nūc eſt ſex pedaliū: ḡ nō dep̄det bipe- Nota.
dale: q2 nūc fieret in ſexqalterō minoꝛ: ḡ ſtat equalē dep̄di
tionē dēſitatis per ptē minoꝛē eē ꝛ acq̄ſitiōēꝫ eq̄lē per ma
ioꝛē: ꝛ tñ totū rarefieri. ꝛ eꝯ pōt eē dep̄ditio dēſitatis per
q̄ntitcūq̄ magnā ptē volueris: ꝛ eq̄lis acq̄ſitio per quāti-
tcūq̄ modicā: ita tñ q totū condēſet vt ſi. a. octo pedaliū:
cui^{9} ſolū 4ª ſit denſa vt duo vt p̄us: ꝛ reſidua pars vt. 16. ꝛ
ponat̄ q t^{a} 4^{a}. a. que eſt dēſa vt duo acq̄rat 2° de dēſitate:
ꝛ ſeq̄t̄ q ei^{9} dēſitas maioꝛabit̄ ad duplū: ḡ t^{a} 4ª fiet in du-
plo minoꝛis quāti^{tis}: ꝛ ſic dep̄det pedale per illā ꝯdēſatio-
nē. ¶ Ponat̄ ḡ q tota pars reſidua ſexpedaliuꝫ dep̄dat
duo de dēſitate: ꝛ ſequit̄ q cū ſua denſitas nūc ſit vt. 16. q
tūc erit vt. 14. ꝛ ſic ſua q̄ntitas erit in ſexqſeptimo maioꝛ
q̄ nūc eſt. ꝓpoꝛtionabilr̄. n. ſicut dēſitas ſit minoꝛ: ita quāti-
tas ſit maioꝛ ꝛ eꝯ. ꝛ ſi ſic illi quātitati nō acq̄rit̄ pedale: q2
tūc fieret in ſexqſexto maioꝛ q̄ nūc eſt. ꝯñs falſuꝫ. ḡ ſeq̄t̄
q tūc erit tota ſua quātitas minoꝛ q̄ nunc eſt. ꝛ ſi ſic ſeq̄t̄
q totū ꝯdēſabit̄: ꝛ tñ per multū maioꝛē ptē ꝯti^{c} erit rare-
factio q̄ ꝯdenſatio ꝛ eq̄ueloꝛ: vt ꝯſtat: ideo nō valet arg^{m}.
id p̄ factū per maioꝛē partē ꝯti^{c} erit dep̄ditio dēſitatis q̄
acq̄ſitio ꝛ equeloꝛ: ḡ totū rarefiet ꝯti^{c}: imo in tali caſu vbi
vna medietas intēſioꝛ itēdit̄ ad me^{m}: ꝛ alia eq̄uelo^{r} remit-
tit̄ in toto tpe cathegoꝛe^{ce} tāta acq̄rit̄ q̄ntitas ꝯmi medie^{ti}
quāta alia dep̄det: vt arguitū eſt in arg^{to} p̄ pro ꝯne p^{a} pbā-
da. Uñ

da. Vñ medietas que ꝯdēſabit̄ velocius incipit deꝑdē de
quātitate ꝗ̄ alia incipit acqrē: q2 vna medietas eſt alteri
eq̄lis: ꝛ ita velocius ꝓportionabilr̄ incipit cōdēſari ꝗ̄ alia
rareſieri: ꝛ ideo velocius incipit diminui ꝗ̄ alia maiorari: ꝛ
aliq̄ñ poſt tardius minorabit̄ ꝗ̄ alia maiorabit̄. ſ. ab illo
inſtāti in quo erit tāta ꝓportio dēſitatis ptis denſioris ad
dēſitatē ptis rarioris quāta erit ꝓportio iſti⁹ ptis dēſioris
ꝓ nota quātitatis ad q̄ntitatē alteri⁹. ¶ Ad cui⁹ declarationē eſt notandum
ꝙ ſi ſint duo equalr̄ denſa ineq̄lis quātitatis eq̄uelor̄ rareſa-
cta ſiue ꝯdēſata ꝓportionabilr̄ ſic vnū eſt maioris quāti-
tatis ꝗ̄ reliquū: ita veloci⁹ acqret vl̄ deꝑdet de quātitate
ꝗ̄ iſta duo equeuelor̄ rareſiet vel ꝯdēſabunt̄: ꝛ per ꝯñs
ꝑ ꝓñ eque ꝓportio r̄ acqrūt vel deꝑdūt de denſitate: ſeq̄t
ꝙ eque ꝓportionabilr̄ acqrūt vel deꝑdūt de quātitate. ꝯña
tenet per ꝓbabita. ꝛ ſi ſic ſicut vnū eſt alio maius: ita velo
2° cius acqrit vel deꝑdit de quātitate. ¶ 2° notādū eſt ꝙ ſi ſint
duo inequalr̄ denſa eq̄lia in quātitate que eq̄uelor̄ pro nunc
acqrāt vel deꝑdāt de denſitate ꝓportionabilr̄ ſic eſt vnū
alio minus dēſuz: ita veloci⁹ acqrit vel deꝑdit de quātita-
te: q2 in qua ꝓportione eſt vnū alio minus dēſuz in ea ꝓportione
veloci⁹ ꝓportionabilr̄ acqrit vel deꝑdit de dēſitate: vt cō
ſtat: ꝛ eque ꝓportionabilr̄ de quātitate ꝛc̄. ſicut de dēſitate. ḡ
3° ſic ꝓportionaliter acqrit velocius vel deꝑdit de quātitate. ¶ 3° no-
ta ex his ꝙ ſi ſint duo ineq̄lia in quātitate ꝛ dēſitate ſicut
vnū eſt alio maius: ita ſit eodē dēſius que equeuelor̄ acq-
rāt vel deꝑdāt de dēſitate equeuelor̄ acqrūt pro h̄ inſtāti
de quātitate vel deꝑdūt nō itelligēdo ꝙ ꝯtinue eq̄ueloci-
ter acqrāt de q̄ntitate: ſ3 itelligēdo illa pro iſto inſtāti pro
quo eſt talis ꝓportio eq̄uelociter in acqrere de quātitate.
Sit enī3 .a. in .f. ꝓportione dēſius .b. ꝛ in eadē ꝓportione maius .b.
ꝛ ſit .c. in .f. ꝓportione maius .b. ſ. equale .a. ꝛ eque dēſum cū .b.
quo poſito acqrāt oīa iſta tria. vel deꝑdāt pro hoc inſtāti
eq̄uelociter de dēſitate: ꝛ ſeq̄t ꝙ pro h̄ inſtāti in .f. ꝓportione
velocius acqrit .c. de quātitate ꝗ̄ .b. iuxta pm iſtoꝝ nōbiliū
ꝛ per 2m iſtoꝝ .c. etiā in .f. ꝓportione acqrit velocius vel deꝑ-
dit de quātitate ꝗ̄ .a. c. enim eſt equale .a. ꝛ in .f. ꝓportione mi-
nus dēſuz: ꝛ eq̄uelociter acqrēs vel deꝑdēs de dēſitate cū
.a. ḡ ſeq̄t ꝙ .a. ꝛ .b. eq̄uelociter acqrūt vel deꝑdūt de quāti-
tate. ¶ Ex his manifeſte ꝯcludit̄ ꝓpoſitum. dato .n. tali inſtāti
in quo erit talis ꝓportio dēſitatis medietatis dēſioris ad
dēſitatē medietatis rarioris quāta q̄ntitatis eiuſdē ad quātita-
tē3 illi⁹: ex quo tūc vna iſtaꝝ medietatum eq̄uelociter deꝑdet de
dēſitate ſic alia acqrit pro iſto inſtāti eq̄uelor̄ acqret vna
de q̄ntitate ſic deꝑdet alia. id .n. qđ tūc deꝑdet dēſitatē eque-
uelociter ꝑciſe pro iſto inſtāti acqrit quātitatis ſic ſi pro eodē
inſtāti acqret dēſitatē ꝛ deꝑdet de quātitate. ideo ꝛc̄. Et ꝙ ſit
dare tale inſtās in quo erit talis portio ꝓ3: q2 ꝓportio quā-
titatis vni⁹ ad quātitatē alteri⁹ a nō gradu ꝓportionis. ſ. maio-
ris ineq̄litatis incipit maiorari que per totū3 tp̄s maiora-
bit̄: vt p3: q2 medietas denſior ꝯtinue maiorabit̄ ꝛ alia mino
rabit̄: ꝛ nūc eſt certa ꝓportio dēſitatis medietatis illi⁹ dēſio-
ris ad denſitatē alteri⁹ medietatis que in infinitum minorabit̄: q2
in fine erūt ille denſitates eq̄les. ḡ aliq̄ñ erit tāta ꝓportio
quātitatis vni⁹ medietatis ad quātitatē alteri⁹ ſicut dēſitatis vni⁹
ad dēſitatē alteri⁹: qđ fuit ꝓbādū. ¶ Ex h̄ ſeq̄t ꝙ ꝯtinue
poſt tale inſtās veloci⁹ maiorabit̄ medietas dēſior ꝗ̄ alia
4° minorabit̄. ¶ Pro quo ponit̄ vnū nōbile ſequēs ex aliis
ſ. ſi ſint duo ineq̄lia ꝛ inequalr̄ denſa: ita tñ ꝙ maior ſit ꝓ-
portio quātitatis vni⁹ ad quātitatē alteri⁹ ꝗ̄ dēſitatis vni⁹
ad dēſitatē alteri⁹: que eq̄uelociter acqrūt vel deꝑdūt de
dēſitate velocius acqrit vel deꝑdit maius de quātitate ꝗ̄
minus: ſit enī3 .a. dēſius .b. in .f. ꝓportione: ꝛ in maiori ꝓportio-
ne maius .b. ꝛ ſit .c. eque dēſuz cū .a. ꝛ in .f. ꝓportione maius .b.
ꝑciſe: tūc iuxta 3m nōbile ꝓpoſitum .c. ꝛ .b. equeuelor̄ acqrūt de
quātitate vel deꝑdūt. acqrāt ei3 .a. b. c. eq̄uelociter de den-
ſitate vel deꝑdāt: ꝛ per pm iſtoꝝ triu3 nōbiliū .a. velocius
acqrit vel deꝑdit de q̄ntitate ꝗ̄ .c. ḡ .a. velocius acqrit vel
deꝑdit de q̄ntitate ꝗ̄ .b. ꝛ ſic ꝯñs erit de medietate denſiori ꝛ
rariori medietate .a. poſt tale inſtās in quo erit ꝓportio equa-
lis ꝛc̄. vt ꝯſtat cū ꝯtinue maiorabit̄ ꝓportio quātitatis vni⁹
medietatis ad quātitatē alteri⁹: ꝛ ꝓportio dēſitatis minora-
bit̄. ¶ Aliud eſt notandum ꝙ ſi ſint duo ineq̄lia in quātitate ꝛ 5°
ineque dēſa: ꝛ minor ſit ꝓportio q̄ntitatis dēſioris ad quā-
titatē alteri⁹ ꝗ̄ dēſitatis vni⁹ ad dēſitatē alteri⁹ que eque-
uelociter acqrūt vl̄ deꝑdūt de dēſitate dēſius tardi⁹ deꝑ-
det vel acqret de quātitate ꝗ̄ rarius. ſit .a. dēſius .b. in .f. ꝓ-
portione: ꝛ in minori ꝓportione ꝗ̄ eſt .f. mai⁹ .b. ꝛ ſit .c. eque dē-
ſum cū .a. in .f. ꝓportione maius .b. ꝛ rareſiāt .a. b. c. eq̄ueloci-
ter vel acqrāt denſitatē eq̄uelor̄: tūc per pm nōbile .c. velo-
cius acqret vel deꝑdet de quātitate ꝗ̄ .a. ꝛ per 3m notabile .c.
tm̄ acqrit vel deꝑdit de quātitate ſicut .b. ḡ .a. minus acq
rit vel deꝑdit de quātitate ꝗ̄ .b. qđ fuit ꝓbādū. Si ḡ que-
rat̄ per quātū tp̄s veloci⁹ minorabit̄ pars que cōdēſabit̄
ꝗ̄ pars rareſacta maiorabit̄: ꝛ per quātū3 tp̄s nō: dico ꝙ
vſq3 ad inſtās in quo erit tāta ꝓportio ptis dēſioris ad ptē
rariorē ſm̄ q̄ntitatem eaꝝ quāta erit ſm̄ dēſitatē earūdē ptiū:
tūc vna iſtaꝝ eq̄uelociter deꝑdet de quātitate ſic alia acq
ret iuxta 3m nōbile: ꝛ ꝯtinue poſt tale inſtās tardior erit deꝑ-
ditio quātitatis ꝗ̄ acq̄ſitio iuxta 4m nōbile: ꝛ ꝯtinue ante
id inſtās erit velocior deꝑditio ꝗ̄ acq̄ſitio iuxta 5m notabi-
le. Ingrere ḡ qđ ſit id inſtās in quo talis habet̄ ꝓportio ꝛc̄.
maiorē laborē exiget ꝗ̄ ꝓfectū: veruntamē vbi eſt vnifor-
mis deꝑditio dēſitatis in vna medietate: ꝛ vniformis acq̄ſi-
tio in alia ante id inſtās mediū toti⁹ tp̄is inueniri ꝯtingit̄ vbi-
cūq3 in aliq̄ caſu calculetur. In difformi vero acq̄ſitione dēſi-
tatis ꝛ deꝑditione iuxta difformitatē acq̄ſitiōis dēſitatis
ꝛ dēſitatis deꝑditionē citra inſtās mediū ꝛ poſt ꝛ in ipſo in-
ſtāti medio p̄dictū inſtās poterit inueniri. ¶ Ex iſtis faciliter
ꝓñ ꝯcluſio demſtrat̄ .ſ. ꝙ dēſitas correſpondet ſuo gradui me-
dio. Sit .n. tale difforme .a. ꝛ correſpondeat quātitas vtriuſq3
medietatis gradui medio iter iſtos gradus denſitatis: ita ꝙ
quātitates ille ꝛ gradus medi⁹ per eq̄les nūōs aſſignent̄:
ꝛ ſit .b. medietas denſior: ꝛ .c. medietas rarior: ꝛ remittat̄
.b. vſq3 ad gradū mediū qui ſit .d. ꝛ itēdat̄ .c. vſq3 ad eūdē.
ꝛ arguit̄ ſic. ꝓportionabilr̄ ſicut denſitas .b. erit minor ꝗ̄
nūc eſt: ita erit quātitas .b. maior: ſ3 denſitas .b. erit in fine
in .d. gradu ſub quo nūc eſt quātitas eiuſdē: ḡ quātitas .b.
in fine erit ſub eodē gradu ſub quo nūc eſt dēſitas eiuſdē.
Silr̄ ꝓportionaliter ſicut denſitas .c. erit maior: ita erit ei⁹ quātitas
minor: ſed dēſitas .c. erit in fine ſub .d. gradu ſub quo nūc
eſt quātitas ſua: ḡ in fine quātitas eiuſdē erit ſub eodē gra
du ſub quo nūc eſt ei⁹ dēſitas: ꝛ per ꝯñs in fine erit gradus
medius iter quātitatē .b. ꝛ quātitatis .c. d. gradus: ꝛ ſi ſic tota
q̄ntitas .a. in fine correſpondebit gradui duplo ad .d. q2 omne
cōpoſitum ex duob⁹ ineq̄lib⁹ eſt duplū ad mediū iter iſta. ꝛ cum
nūc correſpondeat q̄ntitas .a. gradui duplo ad .d. q2 vtraq3 me-
dietas ei⁹ eſt ſub .d. gradu. ḡ in fine erit tota quātitas .a. tā-
ta ſic nūc eſt: ꝛ per ꝯñs totū .a. tūc erit eque dēſū ſicut nūc
eſt: ꝛ tūc erit vniforr̄ gradu illi⁹ medio. ſ. iter dēſitates vni⁹
medietatis ꝛ denſitatē alterius: ḡ id gradui medio correſpondet.
¶ Ideo forte dī ꝙ argumentum id ſatis ꝓbat vbi q̄ntitas vtriuſq3
medietatis iſti gradui medio correſpondet ꝛ nō in aliis caſibus.
¶ Cōtra. ſit ḡ .c. minus ꝗ̄ .a. ꝛ ſilr̄ dēſum: ꝛ ſeq̄t ꝙ ꝓpor-
tionabilr̄ ſic medietas vna .c. eſt minor medietate .a. que ra-
reſiet ita minus acqrit de quātitate: ꝛ etiā ita ꝓportionaliter alia me-
dietas minus deꝑdet de quātitate. Si ḡ totū .a. erit in fine
eq̄lis quātitatis ſic nūc eſt: ita ēt erit .c. tāte quātitatis ſic nūc eſt
ipm: ꝛ ſic eſt arguēdū de oī minori .a. ꝛ ſilr̄ cū eodē .a. diſ-
poſito. ꝛ ideo ſeq̄t ꝯcluſio que eſt ꝯcedēda vt ꝓus. ¶ Ad 2m Ad 2m
argm qđ ponit̄ ꝙ vna medietas ſit rara vt .12. ꝛ alia vt .2.

admittatur ſic intelligẽdo q̄ vna medietas ſit denſa vt .12. et
alia vt duo: q2 gradus vt duo eſt gradus ſexcuplus in ra-
ritate que priuatiue ſe h3 ad dẽſitatẽ vt .12. ſicut .12. poſitiue cõſti-
tuit ſexcuplũ ad duo: et tũc qñ ponitur q̄ raritas .a. maiora-
tur etc. q̄ nõ eſt aliud q̄3 q̄ dẽſitas vt duo minoretur ad ſub-
duplũ .ſ. ad vnũ admittatur: et conceditur q̄ toti correſpondet gradui
vt .7. et q̄ tũc totũ erit rarius q̄3 iam eſt. Et qñ arguitur q̄ nõ: q2
tunc nõ correſpondebit gradui vt .7. dicitur q̄ oẽs gradus citra .7.
eſt multũ3 maior in raritate q̄3 eſt gradus vt .7. q2 raritas
ſe h3 priuatiue vt p̄dictũ eſt: q2 nõ eſt aliud q̄3 dicere q̄ gra-
dus dẽſitatis vt .7. eſt maior q̄3 aliquis citra: et ſic nõ procedit
argumentum q̄d fundatur ſup h̄ q̄ raritas in fine deberet eẽ vt 4or:
cuius tñ oppoſitum nũc eſt dictũ. nec idẽ eſt de denoiatione cali-
ditatis et frigiditatis ſicut dictum in p̄n° ſolonis argumentum primi cõtra pñẽ.
Ad 3m ❡ Ideo ad 3m argumentum qñ ponitur q̄ vna medietas .a. ſit rara .c.
gradu: et alia medietas ſub gradu ſubduplo: et q̄ vna me-
dietas .b. ſit vniformis .c. gradus: et alia gradu ſubq̄druplo dicitur
admittatur caſus et dicitur q̄ infinitum modicũ rarũ eſt aliq̄d iſtorũ.
Et ad argumentum qñ arguitur q̄ q̄libet iſtorũ eſt rarius q̄3 ſi foret vni-
forme .d. gradus negatur id. et qñ ſumitur cõtra: q2 .d. gradus eſt re-
miſſior q̄3 aliquis gradus medius inter .c. et aliũ gradum vltra .d. ne-
gatur: q2 nõ eſt aliquis ſubduplus gradus ad .c. in raritate ni-
ſi gradus duplus in dẽſitate: et ſubquadruplus in raritate
niſi q̄druplus in denſitate: et ideo .d. gradus eſt duplus in
denſitate ad .c. gradum: et gradus ſubq̄druplus in raritate ad .c.
gradum ſub quo eſt medietas minus rara .b. eſt gradus q̄dru-
plus in dẽſitate ad .c. Inter quẽ gradum et .c. eſt gradus medius in
dẽſitate intẽſior .d. gradu vt p3: et ſic de q̄cũq3 alio poſteriori il-
lo et cõ in raritate que priuatiue ſe h3 eſt .d. gradus maior
q̄cũq3 tali gradu medio. Et ideo nõ valet argumentum .d. gradus eſt ſub-
duplus in raritate ad .c. g̊ eſt remiſſior gradu medio inter .c. et
quẽcũq3 aliũ gradum: nec valet de aliq̊ h° priuatiuo: de oi tñ poſi-
tiuo eſt argumentum neceſſariũ3. Et cã eſt: q2 inter oẽs gradus cuiuſcũq3 poſi-
tiui et nõ gradum eſt latitudo ſolũ finita: cuius latitudinis eſt gra-
dus medius ſubduplus ad gradum illũ iſtã latitudinem terminãtẽ in
extremo intẽſiori. S3 in latitudine priuatiua inter oẽs gradus et nõ
gradum eſt latitudo īfinita vt p̄dictũ eſt. vbi tãgitur de intẽſione.
Ideo illius totius latitudinis nõ põt aliquis gradus eẽ medius: imo
gradus medius inter aliquẽ gradum talis latitudinis et gradum talẽ latitudinem in-
cipiẽtẽ eſt in quacũq3 proportione volueris gradu tali ſubduplo re-
Ad 4m miſſior q̄d potius diceretur gradu duplo intẽſior. ❡ Ad 4m argumentum dicitur
admittẽdo caſum: et negatur q̄ medietas minus rara plus p-
portionaliter acq̄rit de raritate q̄3 alia deperdet: q2 nõ eſt aliud di-
cere q̄3 q̄ medietas magis dẽſa plus proportionaliter deperdet de dẽ-
ſitate q̄3 alia acq̄ret: cuius oppoſitum eſt verũ etc. Et tũc qñ arguit
ſic. raritas medietatis minus rare eſt minor q̄3 raritas me-
dietatis rarioris et tãtũ de raritate acq̄rit ſicut alia deper-
det: g̊ plus ſibi proportionaliter acq̄rit q̄3 alia deperdet. Negatur
cõñtia: q2 ſic ſignat q̄ medietas minus rara .i. magis dẽſa
tãtũ acq̄rit de raritate .i. tãtũ deperdet de dẽſitate ſicut alia
acq̄rit: ergo plus proportionabiliter de dẽſitate deperdet q̄3 alia
acq̄rit: que cõñtia vt notũ eſt in nullo valet: imo ſequitur oppo-
ſitũ de q̄cũq3 alio poſitiuo vt ſi eẽt aliq̄d poſitiuũ3 minus
alio q̄d eq̄uelociter maiorarentur plus ſibi proportionabiliter
acq̄reret. ❡ Eſſet .n. ibi cremẽtũ3 in numeris p̄ p̄dicta: de
priuatiuo tñ ſemp oppoſitum ſequitur vt deductũ eſt: eo q̄ inter oẽs
gradum cuiuſlibet talis priuatiui et ſuũ duplũ eſt in duplo minor
latitudo q̄3 inter ipm et ſuũ ſubduplũ: cuius oppoſitum de oi lati-
tudine poſitiua cõſtat vlr eẽ verũ. Exẽplũ3: ſi vna medie-
tas eẽt rara vt octo: et alia in duplo rarior: illa eẽt vt qua-
tuor: cuius gradus medius eẽt vt ſex: et ille gradus vt 4or ma-
ior eſt priuatiue gradu vt ſex. ❡ Habita g̊ bñ imaginatiõe
de latitudine priuatiua qualiter iſta nõ differt realiter a latitudi-
ne poſitiua niſi q̄ in maioratiõe poſitiui ſignati p̄ nume-
rũ creſcit numerus. et cõ eſt de priuatiuo vt dictũ eſt: q2 intẽſio

priuatiui accedit vlterius nõ gradum poſitiui: et remiſſio eius vlterius nõ
gradum īfinitum poſitiui. Quare oĩa argumenta q̄ fundantur in cõparatiõe dẽſi-
tatis ad raritatẽ ſatis faciliter diſſoluuntur. ❡ Ad 5m argumentum qñ Ad 5m
ponitur q̄ .a. ſit vniformiter difformiter rarũ ad nõ gradum raritatis termi-
natũ dicitur negãdo caſum vt priuatiue: qñ id ponebatur cõtra vltimus põnẽs
ponẽtẽ q̄ dẽſitas ſe h3 poſitiue: q2 nõ eſt aliud nõ gradus
raritatis q̄3 gradus īfinitus denſitatis: inter quẽ gradum et aliũ gradum
latitudo vniformiter difformis nunq̄3 poterit inueniri.

Nunquid oẽ vniformiter difforme denſum ſit vniformiter difformiter ra- 2m dubium
rũ. q̄d ſic arguitur: q2 nõ eſt aliud rarũ vniformiter dif-
forme q̄3 dẽſũ3 vniformiter difforme: et cõ q̄ inter ſe raritas et dẽſitas
realiter nõ differũt. ❡ Et q̄ nõ arguitur ſic. Sit .a. vniformiter difformiter
dẽſũ3. et arguitur ſic. Dẽſitas .a. eſt vniformiter difformis: g̊ dẽſitas extre-
mi dẽſioris p̄ tãtũ excedit denſitatẽ illius ad pũctũ medium ſicut
ipa ad medium excedit dẽſitatẽ ad aliũ eius extremum. g̊ maior eſt
proportio dẽſitatis pũcti medij ad dẽſitatẽ extremi rarioris
q̄3 extremi dẽſioris ad dẽſitatẽ medij pũcti: q2 ex eq̄li ex-
ceſſu inter minora reſultat maior proportio q̄3 inter maiora: ſed
proportio ſicut ad aliquẽ pũctũ eſt maior denſitas q̄3 ad aliũ:
ita ad eũdẽ ẽ raritas minor. g̊ proportio raritas extremi rarioris
ad raritatẽ pũcto medio correſpondẽtẽ eſt maior proportione illius rari-
tatis pũcti talis medij ad raritatẽ extremo minus raro cor-
reſpõdẽtẽ: et p̄ cõñs nõ eſt vniformiter difformiter rarũ: q2 ſi eẽt vniformiter difformiter
rarũ. minor eẽt proportio extremi intẽſioris ad medium pũctũ q̄3
medij ad extremum remiſſius: q2 ex eq̄li exceſſu inter minora etc.
❡ Pro iſto dicitur cõcedendo p̄tẽ affirmatiuam. Et ad argumentum in oppoſitum conceditur Rñſio
totũ vſq3 ad vltimum: qñ .ſ. cõcluditur q̄ totũ nõ eſt vniformiter diffor-
me rarũ3: q2 eſt maior proportio raritatis extremi rarioris ad
raritatẽ pũcti medij q̄3 illius ad extremum minus rarũ. de oibus tñ
poſitiuis optime valet argumentum: et ſic eſt h̄ verũ q̄ vlr ex eq̄li ex-
ceſſu inter minora etc. Igitur vbi illa ſint poſitiue cõſiderata
bñ ſequitur: de priuatiuo tñ nõ oportet. Sicut poſitiue octo ſunt ma-
iora q̄3 ſex: et ſex q̄3 4or: et cõ priuatiue 4or ſunt maiora q̄3 ſex
et ſex q̄3 octo: et ſic eſt maior proportio 4or ad ſex q̄3 ſex ad
octo: et tamen ſex eſt gradus medius inter 4or et octo.

Hic põt multa moueri dubia. Primũ nunquid aliquid Dubium primum
ſit eque rarũ ſicut dẽſũ3. ❡ 2m nũquid ex vni- 2m
formi acq̄ſitione dẽſitatis ſequatur vniformis deperditio rarita-
tis et cõ. ❡ 3m nunquid eq̄uelociter et eque proportionabiliter maio- 3m
retur dẽſitas ſicut minoratur raritas et cõ. ❡ 4m nũquid ſi a nõ gradu 4m
raritatis acq̄rat aliq̄ eq̄uelociter de raritate cõtinue manebit
eque rara. ❡ Ad q̄ oĩa põt cõſimiliter argui et reſpõderi ſicut argue- Rñſio
batur: vbi tãgũtur illa de intenſione et remiſſiõe mutatis illis ter-
minis intẽſio et remiſſio in iſtis termis raritas et denſitas.
❡ Unde pro p̄ iſtorũ dicitur negãdo dubiũ diſtinguẽdo raritatẽ
cõtra dẽſitatẽ: q2 vt ſic nõ ſunt cõparabiles ſecundum eq̄litatẽ et ineq̄-
litatẽ. ❡ 2m dubium eſt cõcedẽdũ. ſed 3m eſt negãdũ: q2 ſicut rari-
tas et denſitas nõ ſunt cõparabiles: ita nec deperditio vnius et
acq̄ſitio alterius: vbi .n. motus inter ſe nõ ſunt cõparabiles nec
acq̄ſita p̄ motus h° erũt inter ſe cõparabilia: vt ibi dicitur. ❡ 4m
eſt negãdũ: q2 oĩs gradus raritatis p̄ īfinitum diſtat a nõ gradu rari-
tatis. iſte .n. eſt īfinitus gradus: vt priuatiue. et ideo l3 eq̄uelociter deper-
dat dẽſitatẽ ſtat vnũ alio cõtinue denſius eẽ: ſicut eſt de duobus
que a gradu īfinito cõtinue eq̄uelociter remittuntur. ❡ Pro iſta materia eſt Nota
notandum q̄ nihil põt a certo quãto et a nõ gradu raritatis rareſieri
niſi ſubito fieret quãtitatiue īfinite. et h̄ nõ põt eẽ: q2 tũc q̄libet
pars illius ſubito fieret quãtitatiue infinite. proportionabiliter .n. ſicut
aliq̄ pars fieret rarior ita fieret maioris quantitatis: et ſi ſic q̄li-
bet pũctus intrinſecus illius ab extremo geſcẽte in q̄libet iſtã-
ti dato in īfinitum diſtaret. cõñtia ſatis p3: ex q̄ q̄libet pars talis
fieret īfinita: et ſi ſic ſequitur q̄ in q̄libet iſtãti dato eẽt illa propoſi-
tio vera: nullibi eſt aliquis pũctus eius: q2 nec pũctus qui in p̄n°
fuit medius nec aliquis alius certus datus. et h̄ eſt impoſſibile: q2 q̄libet
pũctus eius eẽt alicubi et nullus eẽt finis in quo aliquis ipoꝝ
eẽt: ideo eſt ſimpliciter impoſſibile aliquid a certo quãto et a nõ gradu
raritatis

raritatis rarefieri: ita. ſ. q̄ totū fiat rarū ſiue ſit rarefactio vniformis ſiue difformis vt appꝫ: q̄ᵃ ſi ſic: aut aliq̄ pars ſm̄ ſe totā rarefieret in īfiᵐ: vel nō. Si ſic argᵉ de illa pte ſic̄ pus argutū eſt de toto q. ſ. in q̄cūqꝫ inſtāti dato nullibi erit aliq̄s pūct⁹ iſtius ptis qḋ eſt īpoſſe: ſic q̄ iſta pars maneat. Si vo dī q̄ nulla pars ſm̄ ſe totā rarefiet in īfiᵐ. dedꝫ g̃ extreᵐ gelcētē: ſeqꝛ̃ q̄ q̄libet pūct⁹ citra aliū extreᵐ per finitū ſolū diſtabit ab extremo illo gelcēte. g̃ q̄libet talis pars ꝯti⁹ erit in īfiᵐ dēſa: q̄ᵃ īfiᵐ ꝯtinēs de mā ⁊ ext̄is ſolū q̄ntitatis finite vt ꝯſtat. ſꝫ h̄ eſt īpoſſe. ſ. q̄ q̄libet pars eius ſit īfiᵗᵉ dēſa. vel q̄ ad oēꝫ pūctū hui⁹ ſit īfinita dēſitas: ⁊ tñ totū eſt rarū: g̃ nō pōt poni q̄ tale fiat rarū qḋ appꝫ verū. ¶ Cōtra qḋ ſic argᵉ. Sit p̄ᵃ pars ꝓpoꝛˡⁱˢ. a. aliq̄ualr dēſa: ⁊ 2ᵃ in duplo denſior: ⁊ ſic in īfiᵐ: ⁊ rarefiat q̄libet pars ꝓpoꝛˡⁱˢ ad raritatē p̄ᵉ ptis ipa gelcēte: tūc totū nō eſt rarū: q̄ᵃ īfinite denſuꝫ ⁊ certe q̄ntitᵗⁱˢ: ⁊ hō erit rarefactio: ita q̄ totū fiet rarū: q̄ᵃ in fine totū erit infiᵐ rarū vnifoꝛ̄ gᵒ quo p̄ᵃ pars ꝓpoꝛˡⁱˢ eſt rara: q̄ᵃ q̄libet iſtaꝝ ptiū ꝓportionabiliū rarefiet ad raritatē p̄ᵉ ptis ꝓportionalis vt ponit̄ in caſu. Et q̄ totū fiet īfinitū pꝫ: q̄ᵃ 2ᵃ pars ꝓportionalis eſt in duplo denſior p̄ᵃ ⁊ q̄ntitatis ſubduple: g̃ tātū ꝯtinet 2ᵃ pars ꝓportionalis de mā ſicut p̄ᵃ: ⁊ in fine erit eque rare cū p̄ᵉ pte. g̃ in fine erit iſta 2ᵃ pars ꝓportionalis eq̄lis cū p̄ma in q̄ntitate: ⁊ ſic arguit̄ de 3ᵃ: ⁊ ſic in īfinitū. g̃ ſeqꝛ̃ 1ᵐ ꝯñem eē falſum: q̄ᵃ in caſu iſto nō ſeqꝛ̃ aliqḋ incōueniēs ibi adductū: q̄ᵃ nulla eſt certa pars que ſm̄ ſe totā rarefiat in īfinitū. q̄libet. n. pars ꝓportionalis hui⁹ ſm̄ iſtā diuiſionē ſolū rarefiet ad q̄ntitatē p̄ᵉ ptis ꝓportionalis: nec ſequit̄ q̄ q̄libet ei⁹ pars terminata ad extremū gelcēs erit in infinitū denſa: q̄ q̄libet talis pars nūc ꝯtrīdet certo gḋui dēſitatis. nec erit verū q̄ ad q̄ēlibet pūctū ei⁹ itrinſecū erit dēſitas īfinita. ¶ Ideo dī q̄ ſi ſm̄ ſe totū aliqḋ eēt nō rarū: ⁊ certe q̄ntitatis id nō poſſet rarefieri neqꝫ ꝑ totū neqꝫ per ptē: q̄ vt deducit̄ ſeqꝛ̃ q̄ nullibi eēt aliq̄s pūct⁹ illius itrinſecus ſi per totū fieret rarū. vel ſi per ptē nullibi eſſet pūct⁹ ill⁹ ptis. ꝑ ꝯñs ſeqꝛ̃ q̄ ad oēꝫ pūctū ꝯti⁹ maneret denſitas īfinita: ⁊ ſic totū nō eſſet rarū. deductio pꝫ per p̄us dicta: vbi tñ ad oēm pūctū itrinſecū erit denſitas finita tātū nō eſt incōueniēs totū fieri rarū: vt p̄dictū eſt. ¶ Sꝫ ꝯtra h̄ arguit̄ ſic. totū ꝯtinet māꝫ īfinitā: ⁊ ſi ſic totū nō eſt rarū nec eē pōt manēte mā illa īfinita. ¶ Pro iſto dī q̄ ſi q̄ntitas maneret finita ſolū hō ſeq̄ret̄: ſꝫ q̄ q̄ntitas erit īfinita ſic̄ mā: ideo nō valet arᵐ. ¶ Cōtra. data hac rñſione ſeqꝛ̃ iſta ꝯcl̄o q̄. a. b. ſunt eque denſa: q̄ruꝫ vnū pōt rarefieri: ⁊ aliud nō: ſic̄ appꝫ de tali q̄ per totū eēt īfinite dēſuꝫ: ⁊ de alio difformi īfinito gradui dēſitatis ꝯtrīdēte vt deducebat̄. g̃ ꝯcedēda eſt ꝯcl̄o. ¶ Itē ſeqꝛ̃ q̄. a. ⁊. b. ſunt eque dēſa: quoꝝ vnū ꝯti⁹ rarefiet ⁊ aliud nūq̄ rarefiet: ⁊ tñ in fine erūt eque rara. Ponat̄ de. a. vt ꝓpoſitū eſt. ſ. q̄ p̄ᵃ pars ꝓpoꝛˡⁱˢ ſit in duplo dēſior 2ᵃ: ⁊ ſic in īfinitū: ⁊ rarefiat q̄libet pars ꝓpoꝛˡⁱˢ. a. ad q̄ntitatē: ⁊ raritatē p̄ᵉ vnifoꝛ̄ acq̄rēdo q̄ntitatē ꝑ totā horā vt ꝯſtat eē poſſibile: ⁊ ponit̄ q̄. b. ſit ꝯſilē ipi. a. ⁊ diuidat̄ hora in ptes ꝓpoꝛˡᵉˢ: ita q̄ in p̄ᵃ pte ꝓportionali illi⁹ hore rarefiat 2ᵃ pars ꝓportionalis ipius ad raritatē p̄ᵉ ptis ꝓportionalis: ⁊ in 2ᵃ pte ꝓportionali hore rarefiat 3ᵃ pars ꝓportionalis huius ad illā raritatē: ⁊ ſic in īfinitū: ita q̄ in omni pte ꝓportionali hore ſolū rarefiat vna pars ꝓportionalis. b. ⁊ in. a. rarefiāt oēs ptes ſil: ⁊ ſeqꝛ̃ ꝯcl̄o. Nā. a. b. ſunt eque denſa: vt pꝫ: q̄ᵃ ſunt oīno ꝯſilr diſpoſita: ⁊. a. ꝯti⁹ rarefiet: q̄ᵃ ꝯtinue poſt hoc erit. a. finite dēſuꝫ: ⁊ ꝯtinue magis ⁊ magis rarefiet: q̄ᵃ gradus in infiᵐ ꝓcedēs: ⁊ q̄cūqꝫ alius ꝯti⁹ minorabit̄ in dēſitate: eo q̄ erit vniformis acq̄ſitio q̄ntitᵗⁱˢ reᵘ cuiuſcūqꝫ ptis ꝓportionalis eius: ⁊. b. nūq̄ rarefiet: q̄ᵃ nō ante finē nec in fine nec poſtea q̄ ꝯtinue ante finē erit totū īfinite denſuꝫ: q̄ᵃ hñs māꝫ īfinitā ⁊ q̄ntitatē ſolū finitā: q̄ᵃ ꝯti⁹ ante finē erūt ſolū ptes ꝓportionales iſti⁹ finite rarefacte: vt ponit̄ in caſu: ⁊ rarefactio finita reᵘ īfinite dēſi nihil ad ſui rarefactionē faciet ſic̄ nec remiſſio finita ad remiſſionē finiti īfinite intēſi. ergo ſeqꝛ̃ q̄. b. nūq̄ ante finē rarefiet nec in fine nec poſtea: q̄ tunc ceſſabit oīs mot⁹ in eo. g̃ ⁊c̄. ¶ Pro iſto dī q̄ imediate ante finē. b. totā latitudine a nō gᵘ raritatis vſqꝫ ad gᵐ ſub quo erit. a. in fine rarefactiōis ſubito acq̄ret: imo pro nullo inſtāti ante finē erit. b. rarū: ex quo tñ nō ſeqꝛ̃ q̄ nūq̄ rarefiet: ſꝫ ſeqꝛ̃ q̄ pro nullo iſtāti ante finē ſm̄ ſe totū rarefiet: ſꝫ imeᵉ ante finē ſubito deꝑdet latᵗᵉᵐ dēſitatis īfinitā. īfinite. a. den⁹ eſt aliqua pars ꝓpoꝛˡⁱˢ que imediate ante finē remittet̄ ad gradū denſitatis p̄me ptis ꝓportionalis: vt ponit̄ in caſu: ⁊ ſic nō procedit argᵐ.

Nunqd exiſtē aliq̄ īfinito q̄ntiᵗᵉ qḋ habeat ptē finitā īfinite dēſaꝫ: totū eēt īfinite dēſuꝫ. Qḋ ſic arguit̄. Sit. a. vnū tale īfiᵐ: cui⁹ vnū pedale ſit īfinite dēſum ⁊ totū reſiduū finite dēſuꝫ ſolū: ⁊ ſit. b. vnū aliud īfiᵐ īfinite dēſuꝫ qḋ eſt imaginabile: ⁊ ſit q̄dlibet pedale illius finite dēſuꝫ. vel p̄ᵐ pedale aliq̄ualr dēſuꝫ: ⁊ 2ᵐ in duplo dēſius: ⁊ ſic in īfiᵐ: ⁊ ſic erit. b. īfinite dēſuꝫ hñs ptē īfinitā īfinite dēſam: ſic̄ eēt de tali itēſo: cui⁹ p̄ᵐ pedale eēt aliq̄ualr itēſuꝫ ⁊ 2ᵐ in duplo itēſius: ⁊ ſic in īfiᵐ: ⁊. a. eſt ita dēſum ſic̄. b. q̄ᵃ ꝯtinet tātū de mā. ſ. infiᵐ ⁊ eſt p̄ciſe tāte q̄ntiᵗᵉ ſic̄. b. g̃. a. eſt īfinite dēſuꝫ. añs appꝫ iuxta pōneꝫ. ¶ Itē p̄ᵃ pars pedalis. a. ꝯtinet īfinitas mās eq̄les: imo īfinities īfinitas equales. ponat̄ g̃ q̄ ab 1ᵒ pedali auferant̄ ille māe ⁊ coextēdātur cū pedalib⁹ reſiduis: ita q̄ q̄libet illaꝝ pedaliū habeat īfinitas hō mās eq̄les: ⁊ ſeqꝛ̃ q̄ in fine. a. erit infinite dēſuꝫ: q̄ᵃ q̄dlibet eius pedale tūc erit īfinite dēſum: vt pꝫ iuxta caſuꝫ ⁊ totū nō ꝯdēſabit̄: q̄ᵃ q̄ntū auferet̄ de mā a p̄ pedali tātū addet̄ alteri p̄dali: g̃ totū nūc eſt īfiᵗᵉ denſuꝫ. ¶ Uel meli⁹ ſic arguit̄. Sit. a. vt poſituꝫ eſt in argᵒ p̄ pro iſto dubio. ⁊ ſequit̄ q̄ p̄ᵐ pedale ꝯtinet īfinitas mās tales quales habet p̄ᵐ pedale. b. maneat g̃ in p̄ pedali. a. vna illarū māꝝ ſolū: ita q̄ due illaꝝ māꝝ extēdant̄ in 2ᵒ eius pedali: ⁊ tres illaꝝ mārū in 3ᵒ pedali. a. ita q̄ tūc p̄ᵐ pedale. a. habeat vnam tñ: ⁊ 2ᵐ duas: ⁊ 3ᵐ quatuor: ſicut. ſ. ſe hñt iſta pedalia ꝯtrīdentia. b. ⁊ ſit vna talis mā in p̄ᵒ in q̄libet pedali ꝑcīcꝫ in p̄ pedali ſicut eſt in p̄ pedali. b. tūc vt ꝯſtat. a. in fine tp̄is erit oīno ꝯſilr diſpoſitū cū. b. vt ponit̄ in caſu: ⁊. b. erit īfinite dēſum: vt p̄ꝫ. g̃. a. nūc erit īfinite dēſum: ⁊ nūc eſt eque dēſuꝫ ſicut tūc erit: q̄ᵃ q̄ntū vnū pedale plus hēbit de mā q̄ꝫ nūc tātū deꝑdet p̄ᵐ pedale. g̃ ſequit̄ q̄ totū nūc eſt īfinite dēſum. ¶ Uel ſic capiat̄ mā in p̄ pedali. b. ⁊ ponat̄ q̄ exceſſus māe in q̄cūqꝫ alio pedali vltra iſtā māꝫ auferat̄ ab illis pedalib⁹ ⁊ addat̄ p̄ pedali: ⁊ videt̄ q̄ totū nec rarefiet nec ꝯdēſabit̄: q̄ᵃ tota mā manebit eadē in illa q̄ntitate. ¶ Ad oppoſitū arguit̄ ſic. per p̄ᵐ argᵐ factū pro eodē dubio: q̄ᵃ ſignet̄ vnū infinitū q̄ntitatiue finite dēſum īfinitū hñs de mā: vt ꝓbatū eſt eē poſſibile q̄ ſit. b. tūc. b. tm̄ꝫ ꝯtinet de mā ſic̄. a. q̄ᵃ vtrūqꝫ īfinitū: ⁊. b. eſt ſolū tāte q̄ntitatis ſicut. a. q̄ᵃ īfinite q̄ntitatis eſt vtrūqꝫ iſtoꝝ. g̃ ſequit̄ q̄. b. eſt eque dēſum cū. a. ⁊. b. eſt ſolū finite dēſum: g̃. a. eſt ſolū finite dēſum. ¶ Item per 2ᵐ argᵐ qḋ fit pro 1ᵒ dubio arguit̄ ꝯtra id idē: q̄ᵃ capiātur oēs medie⁹ᵗᵃᵗᵉˢ māꝝ extēſaꝝ per pedalia. b. īfiniti vniformiter rari que auferant̄ ab illis pedalib⁹: ⁊ addātur p̄ pedali eiuſdē per totū: ⁊ ſequit̄ q̄ id nō cōdēſabit̄ nec rarefiet vt appꝫ: ⁊ q̄ tm̄ꝫ auferet̄ ab vno pedali ſic̄ apponet̄ ꝑti: ⁊ id eſt ſolū finite denſum in p̄n⁹. g̃ id ſoluꝫ finite dēſuꝫ erit in fine: ⁊ tūc erit vna ei⁹ pars finita īfinite denſa. g̃ dubiū eſt falſum. ¶ 3ᵒ ad idē arguit̄ ſic. Ponat̄ q̄. a. ſit bipedalis q̄ntitatis cui⁹ vna medietas ſit dēſa vnifoꝛ̄ certo gradu: ⁊ 2ᵃ dēſa vnifoꝛ̄ gradu remiſſiori: ⁊ maioꝛ̄

Dubium.

2

Ad oppᵐ

iſta pars minus denſa in īfinitū manēs ſemp̄ dēſa vnifor
miter iſto gradu quo nūc eſt ſic ſtaret per additionē mãe
ad extremū: ⁊ ſequiť q̄ .a. dʒ fieri minus dēſum: ſi pars re
ſidua nō cōdēſareť: qͣ p̄ p̄dicta tale corrīdet gradui me
dio. Ponať ḡ q̄ iſti p̄ pedali .a. qd̄ eſt eius medietas adue
niat mãia: ita q̄ rōne cōdēſationis illi⁹ ptis totū maneat cō
tinue eque dēſum ſicut in p̄n°: ⁊ ſeqť q̄ totū .a. in fine erit
eque dēſum ſicut in p̄n°: ⁊ tūc erit vnū pedale illi⁹ infinite
dēſum. ḡ ɔcluſio falſa: qͣ p̄ᵐ pedale eſt īfinite dēſum ⁊ to
tū reſiduū finite dēſum: ⁊ tñ totū eſt intēſum ſub gradu
medio: vt pʒ. Añs arguiť. Nā in infinitū maiorabiť pars
minus dēſa: ḡ ſi illud pedale ſolū ad gradū finitū intēde
reť, nihil in cōparatiōe ad totū ɔferret ſicut eſt de itēſio
ne corpis īfiniti. ḡ tūc nō foret denſius q̄ȝ pars illa īfinita.
q̄ eſt ɔ̄ poſitū. ḡ ſeqť q̄ tūc erit id pedale īfiˡᵉ denᵐ ⁊ totū
4° finite dēſum: vt p̄us. ḡ ſeqť dubiū eē falſum. ¶ Itē dato
iſto ſequiť q̄ aliqd̄ eſt īfinitū cui⁹ ſolū pars finita eſt den
ſa ⁊ īfinita nō denſa: ⁊ totū tñ eſt īfinite dēſum. Sit enim
a. tale: cui⁹ p̄ᵐ pedale ſit īfinite dēſum: ⁊ ſit 2ᵐ pedale ali
qualr̄ dēſum: ⁊ 3ᵐ pedale in duplo minus dēſum q̄ȝ 2ᵐ: ⁊
ſic in īfinitū: tūc capio totū .a. p̄ter p̄ᵐ pedale: tūc id nō eſt
dēſū: qͣ eſt īfinite q̄ᵗitatis ⁊ ſolū finite ɔtinēs de mã: qͣ
p̄ᵐ illoꝝ pedaliū aliquātulū ɔtinet de mã: ⁊ 2ᵐ iſtoꝝ in du
plo minus: qꝛ eo eſt in duplo rarius: ⁊ ſic deinceps. ḡ id cō
poſitū ex oib⁹ pedalib⁹ deducto p̄ pedali eſt nō dēſū: ve
rūtamē totū eſt īfinite dēſum poſita hac diuiſione. ¶ Et q̄
ɔcluſio ſit falſa arguiť: qͣ ex q̄ illa denſitas eſt īfinita ⁊ ſo
lū per pedale nō ſufficit plus denoiare totū q̄ȝ raritas vel
denſitas finita per totū ſubm īfinitū extēſa: ſʒ nulla denſi
tas finita per ſubm īfinitū, īfinitū denoiabit īfinite dēſū:
vt ɔſtat. ḡ nec dēſitas īfinita per ſubm ſolū finitū denoia
bit totū īfinitū īfinite dēſū. ¶ Ideo forte di q̄ talis dēſi
tas īfinita p̄ ſubm ſolū finitū exiſtēs finite dēſum denoia
p° ɔclo bit īfinitū. ¶ Sʒ ɔtra h̄ ſic arguiť. Tūc ſeqť iſta ɔcluſio.
a. ⁊ b. ſunt oīo ɔſilr̄ diſpoſita: quoꝝ vnū eſt in certa ꝓpor
2° ɔclo tione alio denſius. ¶ Siľr ſeqť q̄ oīa iſta eq̄lia ſunt oīo
ɔſilr̄ diſpoſita in raritate ⁊ dēſitate: quoꝝ p̄ᵐ certo gradui
itēſiori .c. gradu dēſitatis corrīdet: ⁊ tñ īfinite modice dē
3° ɔclo ſius .c. gradu eſt aliqd̄ 1ᵘᵐ. ¶ Itē p̄ᵃ pedalia .a. b. eq̄liū ſunt
eque denſa ⁊ reſidua pars .a. certo gradui dēſitatis corrī
det: ⁊ pars reſidua .b. nulli gradui dēſitatis corrīdet: ⁊ tñ
ɔ ɔ̃nes illa duo ſunt eque dēſa. ¶ Cōtra p̄ᵃᵐ argᵘ. Si iᵃ ſunt ɔſilr̄
diſpoſita in denſitate ⁊ quãtitate oīo nō eſt maior ratio
q̄re vnū certo gradui corrīdet q̄ȝ q̄ reliquū eidē gradui
corrīdeat. neutrū ḡ erit alio dēſius. ¶ Cōſilr̄ arguiť ɔtra
2ᵐ ⁊ ɔtra 3ᵐ. Si .n. p̄ᵃ pedalia ſunt ɔſilr̄ diſpoſita: ⁊ reſiduū
b. nulli gradui corrīdet: ⁊ reſiduū .a. certo gradui corrī
det: ⁊ illa denſitas per p̄ᵃ pedalia ſolū finite ɔfert in cōpa
ratione ad totū: ſeqť q̄ .a. gradui intēſiori corrīdet q̄ȝ .b. ḡ
ɔ ſcd̃m p̄ᵃ ɔcluſio eſt falſa. ¶ Arguiť tñ illas ɔ̃nes ſeq. ponať de
a. oīo ſicut in caſu argᵘ tertij cōtra dubiū ponebať: ⁊ po
nanť q̄ .b. ſit tripedalis q̄ᵗitatis: cui⁹ vnū pedale ſit ɔſilr̄ diſ
poſitū cū pedali dēſiori .a. ⁊ ſit totū reſiduū .b. vnifor̄ dē
ſū gᵘ quo eſt 2ᵐ pedale .a. ⁊ ponať q̄ p̄ aduētū mãe maio
reť id bipedale in īfiᵐ manēs ɔtiᶜ ſub eodē gᵘ raritatis: ita
ſ. q̄ in fine erit totū reſiduū a p̄ pedali in īfinitū vnifor̄ gᵘ
quo nūc eſt id bipedale ⁊ fiat cōdēſatio illi⁹ pedalis p̄ ad
uētū mãe p̄ imaginatōeʒ: ita q̄ totū .b. ɔtiᶜ corrīdeat illi gra
dui raritatis cui nūc corrīdet. ⁊ tūc argᵘ ſic. b. nūc eſt min⁹
dēſum q̄ȝ .a. qͣ min⁹ q̄ȝ medietas .b. eſt ſub gᵘ ſub q̄ eſt me
dietas dēſior .a. ⁊ plus q̄ȝ medietas .b. ſub gᵘ illo remiſſio
ri. cū ḡ nec .a. nec .b. rarefiet nec ɔdenſabiť: ſeqť q̄ in fine
erit .a. dēſius .b. totū. añs pʒ p̄ p̄argutā. Et arᵘ ex ɔ̄nte: in fi
ne erit .a. dēſi⁹ .b. ⁊ tūc erūt ɔſilr̄ diſpoſita. ḡ ſeqť ɔclo. añs
argᵘ ſic. Pria pedalia erūt ɔſilr̄ diſpoſita: ⁊ ptes reſidue ēt

erūt vniforᵐ eodeʒ gᵘ. ḡ ⁊c. Minor ſatis pʒ ex caſu. ⁊ ma
ior arᵘ ſic. In fine p̄ᵃ pedalia .a. b. erūt īfiˡᵉ dēſa: ⁊ p̄ ɔ̄ñs eq̄
denſa. añs pʒ de .a. p̄ p̄argutā. ⁊ idē p̄bať de p̄ pedali .b. qͣ
ſi illud pedale .b. erit ſolū finite dēſū: ⁊ totū .b. erit īfinite
q̄ᵗitatis: nihil pōt ɔferre ad denoiandū totū eē dēſū. ɔ̄ña te
net ſic de itenᵉ q̄litatis. ⁊ ſi ſic totū .b. in fine in nulla ꝓporᵉ
erit denſius q̄ȝ pars reſidua a p̄ pedali. ɔ̄ña ſatis pʒ: ⁊ ɔ̄ñs
eſt ɔtra caſum. relinquiť ḡ q̄ in fine p̄ᵐ pedale .b. erit īfinite
dēſum. pro fine ḡ tpis verificať illa ɔclo. ¶ Pro 2ᵃ ɔ̃ne po
niť de .a. b. vt p̄us: ⁊ ſint alia īfinita: quoꝝ cuiuſlibet ſit vnū
pedale vnifor̄ dēſum gradu iſto quo eſt p̄ᵐ pedale .a. ⁊ ſit
alicui⁹ iſtoꝝ pars reſidua q̄drupedalis q̄ᵗitatis ⁊ alicui⁹
octopedalis: ⁊ ſic aſcēdēdo in īfinitū: ⁊ ſic cuiuſlibet illoꝝ
pars reſidua a p̄ pedali ei⁹ vnifor̄ dēſa gᵘ quo eſt medie
tas minus dēſa .a. qui gradus dēſitatis ſit .c. tūc in infinitū
modica ꝓporᵗᵉ eſt aliqd̄ iſtoꝝ dēſius .c. gᵘ: qͣ gradus exceſ
ſus p̄ p̄ᵐ pedale alicui⁹ ad ei⁹ dēſitatē ɔfert aliqd ⁊ reᵘ alte
rius idē gradus in duplo minus ɔferet: ⁊ ſic in īfinitū. id .n.
pedale eſt alicui illoꝝ aliqualr̄ ꝓporᵗᵉ ⁊ in duplo min⁹ ali
cui alteri: ⁊ ſic in īfinitū: vt ſatis notū eſt. ḡ īfinite modice
facit dēſitas p̄mi pedalis alicui⁹ iſtoꝝ ad toti⁹ denoiatio
nē: ⁊ per ɔ̄ñs īfinitū modicū eſt aliqd̄ dēſius q̄ȝ ſi eēt vni
forme .c. gᵘ. fiat ḡ maioratio ptis minus dēſe. ſ. c. gᵘ in īfini
tū manēs ſub iᵒ gᵘ: vt p̄us ponebať de .a. b. ⁊ acqrať denſi
tas p̄ pedali cuiuſlibet illoꝝ: ita q̄ qōlibet illoꝝ ɔtiᶜ corrī
deat eidē gradui dēſitatis ſic in p̄n° corrīdet. ⁊ arᵘ q̄ in fine
erūt oīa illa ɔſilr̄ diſpoſita: qꝛ p̄ᵃ pedalia erūt īfinite denſa
⁊ reſidue ptes īfinite q̄ᵗitatis vniformes .c. gradui: vt p̄us
arguebať de .a. b. qꝛ ſi p̄ᵃ pedalia eēnt finite denſa nihil in
fine ad totius denoiationē ɔferrēt: vt p̄dictū eſt. ḡ oīa illa
tūc .c. gradui corrīdēt. ɔ̄ñs ɔtra caſuʒ ⁊ p̄ᵐ illoꝝ certo gra
dui itēſiori .c. corrīdebit: qꝛ eidē gradui ſic in p̄n°: ⁊ in īfiᵐ
modice erit tūc aliqd̄ dēſius vno vniformi .c. gᵘ: qꝛ tūc cor
rīdebit q̄libet iſtoꝝ eidē gradui ſicut in p̄n° corrīdet. pro
fine ḡ tpis ſeqť ɔclo. ¶ Pro 3ᵃ ɔ̃ne arᵘ ſic. Ponať de .a. vt
p̄us: ⁊ ſit .b. ɔſilē tpi .a. ⁊ diuidať 2ᵐ pedale .b. qd̄ .ſ. eſt vni
forme .c. gradu in ptes ꝓporˡᵉʳ ꝟſus extremū .b. ⁊ ponať q̄
quieſcēte p̄ᵃ pte ꝓporˡⁱ illi⁹ pedalis rareſiat 2ᵃ ad equalita
tē iſtius ptis p̄ᵉ: ⁊ etiā 3ᵃ pars ꝓporˡᶦᵉ rareſiat ad eq̄litateʒ
p̄ᵉ ſine acqſitione vel deꝑditione mãe: ⁊ ſic in īfiᵐ: ita q̄ in
fine erit p̄ᵃ ſemipedalis illi⁹ pedalis que .ſ. nūc eſt p̄ᵃ pars
ꝓportionalis: ⁊ oēs alie ptes ꝓportioˡᶦᵉ eq̄les erunt. ⁊ ſeqť
q̄ in fine erit p̄ᵃ pars ꝓportionalis illi⁹ pedalis aliq̄lr̄ den
ſa: ⁊ 2ᵃ in duplo min⁹ dēſa: ⁊ ſic in īfiᵐ: eo q̄ 2ᵃ pars ꝓpor
tionalis illi⁹ pedalis in duplo minus ɔtinet de mã q̄ȝ p̄ᵃ: ⁊ ēt
oēs alie tūc erūt eq̄les ⁊ eq̄lis q̄ᵗitatis: ideo in īfinitū mo
dice denſa erit illa pars .b. īfinita in fine: eo q̄ erit infinite
q̄ᵗitatis ſolū finitū h̄ñs de mã: ideo in īfinitū totū .b. rare
fiet ſi nō eēt acqſitio dēſitatis in p̄ ei⁹ pedali. acqrať ḡ den
ſitas iſti pedali .b. manēte ei⁹ q̄ᵗitate: ita q̄ totū .b. nec ra
refiet nec ɔdēſabiť: tūc in fine erit p̄ᵐ pedale .a. īfinite dē
ſum: ⁊ p̄ᵐ pedale .b. ſilr̄: qꝛ aliter nihil ad totius .b. denoia
tionē in fine ɔferret in dēſitate ⁊ reſiduū .a. tūc erit vnifor
me .c. gᵘ: vt ponit caſus: ⁊ reſiduū .b. tūc nō erit denſum: qꝛ
erit infinite q̄ᵗitatis: ⁊ ſolū finite ɔtinēs de mã: ⁊ tñ .a. ⁊ .b.
tūc erūt eque denſa: qꝛ nūc ſunt iſta eque dēſa: ⁊ neutrum
eoꝝ rarefiet nec condēſabiť. ḡ in fine erūt eque dēſa. totū
añs pʒ per caſum: ⁊ ɔ̄ña eſt neccīa: vt notū eſt. ḡ ɔclo vera.

Pro iſto ḡ dubio ⁊ ɔ̃nib⁹ reductis di negando du p° ad du
biū cum trib⁹ ɔ̃nib⁹: ⁊ di ſatis ſecure ſicut bium.
dictū eſt: vbi tāgiť qualr̄ q̄litas idē denoiat ſubm q̄ .ſ. nec
q̄litas finita nec īfinita extēſa per ptē finitā alicui⁹ īfiniti
totū ſub aliq̄ gᵘ ſufficit denoiare: ita ēt erit hic dōm q̄ da
to īfinito quãtitatiue h̄ñs dēſitatē īfinitā per ptē ſolū fini
tam, totū nō ſufficiet gᵘ finito nec īfinito denoiare: qͣ quã
titas īfinita

titas infiniti ſubti infi^te plus tollit de denoiatione q̄litatis q̄ aliqua q̄litas finita illi^9 p ſi^m extēſa poterit pmouere. Et iō ſi addat̄ q̄litas iſti^m ſiue finita p̄ti ei^9 finite non plus denoiare pōt q̄ reſiduū eſt ſue denoiatiōis impedimētū.

Ad ar^m ¶ Jō ad ar^m pro dubio ſcā rñdet̄. Et pmo ad p̄^m ꝛ dicit̄ admittēdo caſuꝫ ꝛ totū ꝯcedit̄ vſqꝫ ad illaꝫ ꝯñaꝫ.b.eſt infinite dēſuꝫ:ꝛ.a.eſt tātē q̄ti^te ſic.b.ꝛ tantū ꝯtinet ð mā ſicut totū.b.ḡ.a.eſt infi^te dēſuꝫ:que ꝯña eſt negāda:q2 totū eſt q totū reſiduū.a.p̄ter p̄^m pedale eſt finite dēſuꝫ:q2 vniſor^r:ꝛ tñ id tātū ꝯtinet de mā ſic totū.b.q2 infinitum de mā ꝯtinet vtrūqꝫ:ꝛ eſt ēt tāte q̄ti^te p ſe ſic.b.q2 vtrūqꝫ eſt infinite quāti^te:ꝛ tñ.b.eſt ifinite dēſuꝫ. Et^9.a.eſt iſti^a ps ſꝫ ſe totaꝫ infi^te dēſa vt ꝯſtat ꝛ ipſi^9.a.nō eſt aliq̄ ps maior pedali ſꝫ ſe totū ifinite dēſa:ꝛ iō lꝫ in vtroqꝫ ſit eq̄lr de mā: tñ non illo mō diſponit̄ mā iſta ſic in.b.q2 iſti^te plus ſufficit̄ denoiare q̄ mā.a.totū eē dēſum rōne p̄dcā. Nec tñ ꝯña eſt nec̄ia totū eſt finite q̄ti^te:ḡ eſt eq̄ dēſum cū quolꝫ ſibi eq̄li eq̄lr cū eo de mā ꝯtinēte quocūqꝫ mō diſponat̄:q2 ibi quelꝫ ps denſitatis tot^9 q̄ ſit^te quātūcūqꝫ modica fuerit totū ſufficit in quātitate tātū denoiare:qð tñ nō eſt verꝫ de iſti^ta ꝛ ſic nō pcedit ar^m.

Ad 2^m ¶ Ad 2^m arg^m admittat̄ caſus ꝛ ꝯcedit̄ q in fine erit.a.iſti^te dēſuꝫ:ꝛ negat̄ q nō ꝯdēſabit̄. Et ad probationē illi^9 negat̄ ꝯña.ſ.lꝫ oīs mā que alicui pedali addet̄ auferet̄ a p̄ pedali:ḡ totū nō ꝯdēſabit̄: q2 lꝫ oīs mā q̄ vni pedali addet̄ p̄ fuit in p̄ pedali:due tñ illaꝝ p quātit^te maiꝫ maiorē erūt:ꝛ ſic erūt aliq̄ alte ifinite p iſti^m ſubm vbi nūc ſunt ſolū p finitū:ꝛ iō tūc ſufficiēt denoiare: vbi tñ iaꝫ nō ſufficiūt. ¶ Et ad ar^m ꝯ ꝯcedit̄ q in fine erit.a.eq̄ denſuꝫ cū.b.ꝛ dī vt p̄us q ꝯdēſabit̄ in infi^m.a. ꝛ q̄n arg^r q nō tota mā tūc erit tāte q̄ti^te ſic nūc ꝛc̄.ḡ nō ꝯdēſabit̄. negat̄ ꝯña. vñ ſi fiat locutio de tota mā p̄mi pedalis.a.certuꝫ eſt q extēdet̄ in iſti^m maiori p̄te.a.q̄ nūc extēdat̄: ꝛ in ifinitū aliqñ faciet ad denoiandūꝫ totū eē dēſuꝫ: lꝫ tñ tunc nō ita faciat. Et ideo nō valet ar^m q̄lꝫ mā q̄ extēdit̄ in aliq̄ pedali a.p̄us fuit in vno ei^9 pedali:ḡ totū nō ꝯdēſabit̄:q2 oēs ille mēe ſil' ſumpte p iſti^m mai^9 ſubꝫ extēdent̄ q̄ nūc ſint extēſe cū dēſitatib^9 iſtis correſpōdētib^9:lꝫ q̄lꝫ illaꝝ p ſe ſoluꝫ per eq̄le ſubꝫ extēdit̄ ſic in p̄n^9.

Ad 3^m ¶ Et iō ad ar^m 3^m admittatur caſus de.b.ꝛ dī q.b.in iſti^m fiet min^9 denſuꝫ q̄ nūc eſt:q2 p infi^m min^9 tūc extēdit̄ dēſitas iſti^ta.a.p quā totū denoiatur dēſuꝫ q̄ nūc vt ꝯſtat:q2 p infinitā p̄tē illi^9 extēdit̄ dēſitas infi^ta:vbi tñ in fine ſolū extēdit̄ p vnū pedale vt notū eſt: ꝛ iō in illo caſu nō ſequit̄ q.b. in fine erit ifinite denſum.

Ad ꝯnē ¶ Per h̄ ēt iſtis ꝯnib^9 rñdet̄ ipſas negādo ꝛ dī q ps illa finita in iſti^m dēſa nō ſufficiet totū aliq̄ g^u denoiare: ꝛ iō in nulla ꝓpor^ne erit.a. tūc dēſi^9 q̄ ſi illa ps eēt ablata q̄ eſt in infi^m dēſa. Et ad caſuꝫ q ponit̄ pro p̄^a illaꝝ triū ꝯnuꝫ dicit̄ admittēdo q pro oī inſtāti añ finē nec.a.nec.b. rarefient: nec ꝯdēſabunt̄:ſꝫ dī q rōne acq̄ſitiōis quātitatis infinite ſubito añ finē imediate remittet̄ denſitas.a. a g^u cui nunc correſpōdet vſqꝫ ad g^m medietatis rarioris q̄ in fine erit infinite q̄titatis:ꝛ ſic ēt erit de.b.ꝛ iō arg^m nō pcedit. fundat̄ eniꝫ ſup h̄ q dēſitas iſta ifinita p pedale.a.aliq̄lr ad tot^9 denoiationē ꝯfert qð tñ eſt negatū. ¶ Cōſilr dī in caſu poſito pro 2ª ꝯne:q.ſ.q̄bꝫ illoꝝ ifinitoꝝ in fine in n^a ꝓpor^ne erit magis dēſuꝫ q̄ ſi p totū h̄ret.c.g^m quo erit totū p̄ter p̄^m pedale vniſor^r. ¶ Et ſic dī ad 3as ꝯneꝫ negādo:q.a.ꝛ.b.in fine eidē gradui correſpōdebūt:imo dī q ifinite remiſſo gradui correſpōdebit tota dēſitas.b.in fine ſic reſiduū ipſius a p̄ pedali ſuo: q2 id pedale nihil faciet in fine vt p̄dcm̄ eſt:ꝛ ſic nō pcedit argu^m: vñ caſus pro oī inſtāti citra finē t̄pis ſunt admittēdi nō tñ pro toto t̄pe. ¶ Cōtra ex hac rñſiōe ſeq̄t̄ q quelꝫ ps terminata ad extremū.b.eſt in iſti^m denſa:ꝛ tñ totū nō eſt dēſuꝫ:vel eſt ifinite modice dēſuꝫ. Nam in fine q̄lꝫ ps terminata ad extremū ei^9 iſti^m dēſa erit:q2 quelꝫ talis ps eſt finite q̄titatis vt ꝯſtat h̄ns certā p̄tē ifinitā dēſaꝫ:ꝛ tñ iux̄ rñſionē totū tūc nō erit dēſuꝫ: vl' ſaltē totū tūc erit ifinite modice dēſuꝫ. ¶ Pro illo ꝯcedit̄ ꝯcl'o ſic p̄us de intēſiōe ſubti ifiniti h̄ntis q̄litatē ifinitā p ſi^m ei^9 ꝛc̄.

Nota **Pro iſta** mā vltēri^9 eſt aduertēduꝫ:q q̄n aliqd augmētat̄ p rarefactionē req̄rit̄ q eſ alicuius pūcti deducētis aliqs motib^9. Nullus.n.pūct^9 mouet̄ vſus aliquā dīaꝫ pōnis:niſi rōne q̄titatis acq̄rēde citra pūctū talēꝫ q erit pellēs illū pūctū:ꝛ q̄tū acq̄rit̄ ð q̄ti^te citra pūctū talēꝫ tātū perāſibit̄ me^te motu illi^9 pūcti vt ꝯſtat. Si ḡ p totū rareſiat me^te vno extrēo rōne illi^9 rarefactionis citra aliud extremū n^a q̄titas acq̄ret̄ q̄ ipſaꝫ pelleret vl' moueret.id ḡ extremū q̄ſceret.ꝛ ſic dēꝫ eſt de extremo p̄tis ſi ſolū ps ſꝫ ſe totā rarefiet ꝛ ꝯſilr ē de ꝯdēſatiōe. ¶ Ex h̄ ꝯcludit̄ q ſi foret vnū iſti^m nō poſſet p totū certo g^u finito diminui p ꝯdēſationē moto extrēo finite:tūc.n.nullus foret pūct^9 q̄ſcēs:imo ſeq̄ret̄ q nullibi eſt aliqs pūct^9 quocūqꝫ inſtāti dato poſt h̄:q2 añ q̄dcūqꝫ inſtās iſti^m trāſiret extremū ei^9 ꝛ rōne ꝯdēſatiōis p̄mi pedalis aliq̄lr trāſiret:ꝛ rōne ꝯdēſatiōis alteri^9 pedalis tñ:ꝛ ſic in iſti^m:eo q oīa talia pedalia eq̄lr p̄derēt de q̄ti^te nullibi ḡ q̄cūqꝫ inſtāti dato eēt pūct^9 iſte extremalis nec a fortiori aliqs ali^9. ¶ Ex his ēt pꝫ q nō eſt poſſe aliqd a nō q̄to ꝛ a certo g^u raritatis rarefieri:q2 tūc añ q̄dcūqꝫ inſtās datū foret ifinite rarū: q2 in infi^m modicū ꝯtinēs de mā ꝛ eēt certe q̄ti^te vt notū eſt ſi nō fiat noua acq̄ſitio mēe.ſine^te.n.poſt h̄ infi^m modicū de mā ꝯtineret.cū ḡ fieret certe q̄ti^te id̄m ēt fieret ifinite rarū:ꝛ ſic in iſti^m oīa pūcta a ſeīnicē diſtarēt:ꝛ p ꝯñs nō eēnt. pꝫ ḡ q fuit ꝓbādum. Et plura poſſent hic fieri ſophiſmata que ſi bñ intelligant̄ ꝓpoſita ſatis facilr diſſoluūtur.

¶ Tractatus ſextus de velocitate motus augmentationis.

PEnes q̄d velocitas mot^9 augmen^tis attēdit̄ eſt dōꝫ:in q̄ mā.due ſūt pōnes: p̄^a pō q̄ eſt Delberi.
quaꝝ vna ponit q velocitas augmen^tis attēdit̄ penes ꝓpor^lē acq̄ſitionē q̄ti^te vt ſi ineq̄lia eq̄ue^r augmētabūt̄ ſi vnū augmētabit̄ ad du^m reliquū ēt ad du^m:ꝛ ſi vnū ad ſexq̄alterū reliquū ad ſexq̄alterū:ꝛ ſic de oī alia ꝓpor^ne:ꝛ ſi du^m augmētabit̄ cum ſuo ſubdu^o eq̄ue^r req̄rit̄ q in du^o veloci^9 acq̄rat de q̄ti^te q̄ illud ſubdu^m:q2 alr nō eq̄ ꝓportiōabilr augmētaret̄ vt ꝯſtat.

Contra quā pōneꝫ ar^r ſic. Data illa ſeq̄t̄ q aliq̄ ſunt duo eq̄lia q̄ ꝯti^e ineq̄ue^r augmētabunt̄:ꝛ id qð veloci^9 augmētabit̄ ꝯti^e manebit min^9: que tñ eſt falſa. 3 pōneꝫ
Si.n.ꝯti^e eq̄ue^r augmētarēt̄ ſp manerēt eq̄lia:ḡ ſi vnū alio veloci^9 augmētabit̄ id erit alio mai^9:ꝛ p ꝯñs nō erit min^9. Et q iſta ꝯ ſeq̄t̄ ar^r ſic. Sint.a.ꝛ.b.duo eq̄lia q̄ eq̄ue^r acq̄rāt de quāti^te deꝑdat.a.tñ de q̄titate min^9 q̄ acq̄rat ꝛ nō deꝑdat.b.aliquā q̄ti^tē:tūc ſic arg^r.a.ꝯtinue erit min^9.b.ꝛ eq̄ue^r acq̄ret ð q̄ti^te ſic.b.ḡ magis ſibi ꝓpor^le acq̄ret.a.ꝯtinue de quāti^te q̄.b.ꝛ ſi ſic iux̄ pōnē ꝯti^e veloci^9 augmētabit̄ a.q̄.b. Et q.a.erit ſp min^9.b.pꝫ:q2 ſi nihil deꝑdēret:tē eq̄ue^r augmētarēt̄.a.ꝛ.b.ꝛ ſp.a.manēt eq̄le.b. ſꝫ nūc eſt minus q̄ tūc:eo q erit deꝑditio quā^tis:ḡ ſeq̄t̄ ꝯ. ¶ Jō forte ne^r illa ꝯña.a.ꝯtinue erit min^9.b.ꝛ tātū acq̄ret.a.ſic.b.ḡ veloci^9 augmētabit̄ q̄.b.ſꝫ bñ iſtud ſeq̄ret̄ ſi nō foret deꝑditio quātitatis. ¶ Cōtra.hic q̄rit̄ tūc penes q̄d ſimplr attēdit̄ velocitas mot^9 augmētatiōis ſiue ſit deꝑditio quātitatis ſiue nō. Si dī p̄^a:tūc reddit ar^m:ꝛ ſi ita nō dī iſufficiēs erit pō. ¶ Ex hac pōne quedā ꝯnes deducunt̄ falſe. Si ſint duo ſiue eq̄lia ſiue ineq̄lia que ꝯtinue eq̄ue^r diminuent̄ eq̄ue cito deuenient ad nō q̄tū: q2 ſi nō ſint.a.b.duo ſiue eq̄lia ſiue ineq̄lia ꝛ ꝯtinue eq̄ue cito^r diminuant̄: ꝛ diminuatur vtrūqꝫ ad nō q̄tū:ꝛ arguit̄ q iſta eq̄ue cito deuenirent ad 2^a ꝯ

nõ q̃ntũ:q2 capiat̃ tps in quo vnum erit diminutũ vſq3 ad nõ q̃ntũ:ꝛ ſeqt̃ ꝙ ĩfinite ꝓpor' diminuet̃ : ꝛ aliud tãtũ ſibi ꝓporl̃e depdet in illo tpe ſicut id : g̃ aliud in iſto tpe diminuet̃ ad nõ quãtũ3.minor pz:q2 iſta equeuc' diminuẽtur.
3ª ȝ ⸿ Silr̃ ſiue eq̃lia ſiue ineq̃lia equeuc' diminuant̃:ita ꝙ vnũ finite veloci' alio diminuat̃ , ſeqt̃ iſta ad nõ quãtum equeuc' deuenire.Cũ.n.vnũ ad nõ quãtũ3 deuenerit infi^m ꝓporl̃e ſibi depdet:ꝛ aliud ſolũ3 finite min' ſibi ꝓporl̃e de
4ª ȝ perdet:ꝛ per ꝯñs in iſto tpe deueniet ad nõ quãtũ. ⸿ Dẽ qð a nõ quãto icipit augeri in ifi^m velociter incipit augeri: q2 ante q̃cũq3 inſtãs erit aliquãtulũ3 ꝛ ſubduplũ3 ꝛ ſubquadruplũ ꝛ ſic in ifi^m:g̃ añ q̃cũq3 inſtãs in ifi^m ſibi pro
5ª ȝ portionale acqret:ꝛ p ꝯñs infi^m velo' icipit augeri. ⸿ Si
ꝛ ẽ ſubtilis. aliqua a nõ quãto incipiũt augeri:quoꝝ vnũ alio in certa ꝓportione veloci' augmẽtabit̃:illud qð cõtinue velocius augmẽtabit̃ per magnũ tps erit min' q̃3 reliquũ: q2 ſi non ſint.a.ꝛ.b.duo talia:ꝛ ponat̃ grã ar^ti ꝙ.a.ꝯtinue in du^o velocius augmẽtabit̃ q̃3.b.tũc ſi.a.cõtinue erit maius.b.detũ inſtãs tale in quo erit mai'.b.ꝛ ſit.c.in quo.a.erit in duplo maius.b.grã exẽpli ꝛ ſignet̃ inſtãs citra illud in quo iſtãti b.erit in duplo min' q̃3 erit in illo inſtãti dato:ꝙ inſtãs ſit d.ꝛ arguit̃ ſic.b.in tpe medio inter.c.d. ad duplũ3 augmẽtabit̃:ꝛ.a. in duplo veloci' augmẽtabit̃ q̃3.b. ergo tunc.a. augmẽtabit̃ ad q̃druplũ3:g̃ in.c.inſtãti erit.a. in q̃druplo maius q̃3 in.d.inſtãti:ꝛ in.c.inſtãti erit.a.duplũ3 ad.b.g̃ in
Regl̃a ꝓportionũ. d.iſtãti erit eq̃le.b.ꝯñs tenet per ſ̃. ⸿ Si ſint duo:quoꝝ vnũ ſit duplũ3 ad reliquũ:ad idẽ3 ſe hz illud du^m in ꝓportione q̃drupla ad qð idẽ ſubdu^m ſe hz in ꝓportiõe dupla: eo ꝙ ꝓportio q̃drupla cõponit̃ ex duab' duplis:ꝛ ſequit̃ vlteri' ꝙ ſi in.d. inſtãti erit.a.eq̃le.b. ꝯtinue añ illud iſtãs erit.a.min'.b.eo ꝙ ꝯtinue añ illud inſtãs magis ſibi ꝓportionale acqrit.a.q̃3.b. ⸿ Uel ſic arguit̃ gñalr̃. Sit.c.iſtãs aliqð in quo.a.erit maius.b.in certa ꝓpor^e que ſit.f.ꝛ ſit d.inſtãs vt ꝑus:in quo erit.b.in.f. ꝓportione minus q̃3 erit in.c.tunc arguit̃ ꝙ in.d.inſtãti erit.a.eq̃le.b.q2 inter.d.ꝛ.c. inſtãs augmẽtabit̃.b.per.f. ꝓportionẽ:ꝛ.a.in du^o velocius augmentabit̃ q̃3.b.igit̃ in.c.inſtãti erit ꝓportio quãtitatis a.ad quãtitatẽ hñda3 in.d. inſtãti ꝯtinẽs duas.f. ꝓportiones:ꝛ tunc ſe habebit.a.ad.b.in.f. ꝓportione:ergo in.d. inſtãti erit.a.eq̃le.b.ꝯñs pz.ſic in.c.inſtãti erit.a.in.f. ꝓpor^e maius.b.ꝛ.b.tũc ſe habebit ad quãtitatẽ in.d.inſtãti habẽdam in.f. ꝓportione:ergo ꝓportio.a.in.c. inſtãti ad quãtitatẽ3.b.in.d.inſtãti hñda3 erit cõpoſita ex duab'.f.ꝓportionib'.ꝯñia pz per hoc.
Regula. ⸿ Quibuſcũq3 duob^o extremis captis interpoſito me^o: ꝓportio primi ad 3^m cõponit̃ ex ꝓportione primi ad 2^m:ꝛ ſcði ad 3^m.cũ3 g̃ ꝓportio quãtitatis.a.habẽde in.c.inſtãti ad quãtitatẽ habẽda3 in.d.inſtãti erit etiã cõpoſita ex duab'.f. ꝓportionib'. pz ꝙ in.d.inſtãti erũt.a.ꝛ.b.eq̃lia: ꝛ ſi ſic ꝯtinue ante.d. inſtãs erit.a.min' b.qð fuit ꝓbandũ3: q2 ſicut arguit̃ qñ.a. ꝯtinue augmẽtabit̃ in duplo velocius q̃3.b.ſic de omni alia ꝓportione eſt arguẽdũ3.
6ª ȝ. ⸿ Ex hoc ſequit̃ ꝙ ſi aliq̃ a nõ quãto incipiant augeri.quoꝝ vnũ alio cõtinue in certa ꝓportiõe velocius augmẽtabit̃:id qð ꝯtinue velocius augmẽtabit̃ in ifinitũ minus icipit eẽ alio. Ponat̃ enim de.a.ꝛ.b.vt prius:tũc vt argutũ eſt:ſi.a. erit maius.b.ſequit̃ ꝙ.a. aliqñ erit eq̃le.b. ꝛ per ꝯñs cũ ſemp.a.augmẽtabit̃ ad q̃druplũ qñ.b.augmẽtabit̃ ad du^m:ſequit̃ ꝙ in illo iſtãti in quo.b. erit in duplo minus q̃3 in inſtãti dato.ſ.d.a. erit in du^o min'.b. g̃ adhuc in inſtãti priori in quo.ſ.b.erit in duplo minus q̃3 tũc erit. erit etiã.a.in quadruplo min' q̃3.b. ꝛ ſic in infi^m. ꝯñia ſatis pz per hãc regula3.
Regl̃e bona in mĩ ꝓportionũ. ⸿ Naz ſi ſint duo ineq̃lia quoꝝ min' manẽs cõtinue minus in duplo velocius augmẽtabit̃ ꝓpor' q̃3 maius qð maiorabit̃ ad du^m ꝓpor' illoꝝ adinuice3 per ꝓpor^{nẽ} dupla3 fiat minor. Sit enim.a. id min' qð maiorabit̃ ad q̃druplũ3 qñ.b.mai' maiorabit̃ ad du^m ꝑciſe ꝛ ſit.c.quãtitas ꝑciſe du^a ad quãti^{tem} ſuã quã nũc hz.a.tunc ſic arguit̃.
augmẽtet̃ a.ad.8.ꝛ 6.ad.12. Si.a.maioret̃ ad du^m ſicut.b.tũc maneret eadẽ ꝓpor^o.a.ad.b.que nũc eſt inter illa: q2 tũc eq̃ ꝓpor' augmẽtarent̃ iſta duo.Sz nũc in fine erit ꝓpor^o quãtitatis.b. ad quãti^{tis}.a.per ꝓpor^{nẽ} dupla3 minor q̃3 tũc eẽt.g̃ hẽ ꝓpo^m. Minor ſic ar^r.c.quãtitas eſt du^a ad quãtitatẽ.a.ꝛ quãtitas quã.a.hẽbit in fine erit du^a ad.c.quãti^{te} : eo ꝙ.a. maiorabit̃ ad q̃dru^m:g̃ in fine erit ꝓpor^o quãti^{tis}.b.ad.c.maior ꝓportione quãti^{tis}.b.ad quãti^{tem}.a.per ꝓpor^{nẽ} duplã.
Regula. Si.n. aliqd ad duo ineq̃lia in ꝓpor^{ne} maioris ineq̃litatis cõparet̃ ꝓpor^o ꝑmi ad 3^m excedit ꝓportionẽ primi ad 2^m per ꝓportionẽ ſcði ad 3^m:eo ꝙ tota propor^o ex illis duab' eſt cõpoſita.cũ g̃ ꝓpor^o quãti^{tis}.b.ad.c.in fine erit tãta ſicut nũc eſt.b.ad.a.ſi ſolũ.a.acqreret.c.ꝛ nõ plus.a.ꝛ.b.manerẽt eq̃ ꝓportiõabilia:ſ3 q2 trãſit.c.p du^m:pz ꝙ ꝓpor^o.b.ad.a.minorabit̃ per ꝓpor^{nẽ} dupla3.ſ.q̃ eſt.c.ad.a.quã depdet maioratio.b.ad ſuũ du^m.Cũ3 g̃ añ q̃cũq3 inſtãs datũ ifinites maiorar'.b.ad du^m:ꝛ.a.ad q̃dru^m:ſeqt̃ ꝙ añ q̃cũq3 inſtãs datũ erũt ifi^{te} ꝓpor^{nes} du^e inter.b.ꝛ.a.depdite:g̃ in infinitũ mai' icipit eẽ.b.q̃3.a.ꝛ ſic de olb' aliis eſt arguẽdũ3 : quoꝝ vnũ in certa ꝓpor^{ne} veloci' ꝯtinue a^o augmẽtabit̃.g̃ ſe^a ȝ.
7ª ȝ ⸿ Sed tñ aliqua a nõ quãto augeri : quoꝝ vnũ a^o ꝯtinue veloci' augmẽtabit̃:ꝛ tñ id qð veloci' augmẽtabit̃ ꝯtinue erit mai^o. Hec ꝯclõ vĩ repugnãs qnte ȝni:ꝛ ſ̃ arg^r ſic.Sit a.maius.b.in certa ꝓpor^{ne} ꝛ diuidat̃ hora in ptes ꝓpor^{les} vſus finẽ ꝛ diminuat̃.b.in oĩ pte ꝓpor^{li} ad ſubdu^m ꝛ diminuat̃.a.ſic ꝙ ꝓpor^o inter.a.ꝛ.b.in oĩ pte ꝓpor^{li} diminuatur ad ſubdu^m:ita ꝙ propor^o.a.ad.b.in fine cuiuſl3 ptis proportionalis erit in du^o minor q̃3 in ꝑn^o eiuſdẽ ptis proportionalis qð eſt ſatis poſſ:eo ꝙ ꝓpor^o duoꝝ ineq̃liũ3 põt minorari minorato termio miori qð nõ eẽt niſi terminus maior mioret̃.quo poſito.a.ꝯtinue erit mai^o.b.vt notũ eſt per caſũ3:ꝛ ꝯtinue veloci' diminuet̃ q̃3.b.q2.b.in oĩ parte ꝓpor^{li} miorabit̃ ad ſubdu^m ꝛ ꝓpor^o.a.ad.b.ꝯtinue minorabit̃:g̃ cõtinue veloci' ꝓportionabilr̃ maiorabit̃.a.q̃3.b. ꝯñs tenet p ſ̃.
Regl̃a ꝓportionũ. Si proportio maioris ad min' mioretur ꝛ vterq3 terminus mioret̃ veloci' propor' miorar' maior terminꝰ q̃3 mior vt ꝯſtat:ꝛ ſi i^a propor^o mioret̃ p maiorationes vtriuſq3 termini tardi' propor' maiorar' maior q̃3 minor: q2 ſi maior terminꝰ eq̃ ꝓpor':maioret̃ cũ minori tota ꝓpor^o ſemp maneret tãta ſicut eſt in ꝑn^o: ꝛ ſi velocius ꝓpor' maioret̃ terminꝰ maior q̃3 minor tota ꝓpor^o maiorarẽt ſicut ſatis pz itelligẽti.ſeqt̃ g̃ ꝙ ꝯtinue veloci^o miorabit̃.a.q̃3.b.ꝛ equeuo deuenient ad nõ q̃ntũ: q2 ex quo proportio.a.ad.b.minorabit̃ ad nõ gradũ3:ꝛ.b.minorabit̃ ad nõ q̃ntũ:ſeqt̃ ꝙ.a.minorabit̃ ad nõ q̃ntũ.aĩr.n. ꝓpor^o.a.ad b.in ifi^m maioraret̃:g̃ ſtabit eȝ.a.ꝯtinue veloci' augmẽtari q̃3.b.vtroq3 icipiẽte a nõ q̃ntitate ꝙ.a.ꝯti^e veloci' augmẽtabit̃ q̃3.b.ꝛ ſp maneret mai^o.b. ⸿ Jð ꝯclõ eſt ꝯcedẽda:ꝛ dĩ ꝙ i^a nõ repugnat 5^e ȝni.gnta.n.ꝯclõ ponit̃ vbi vnũ3 in certa ꝓpor^{ne} veloci^o a^o icipit augmẽtari.Et in i^a 7ª ȝne in nulla ꝓpor^{ne}.a.icipit veloci^o augeri q̃3.b.qð ſic arg^r.in via diminutionis ifi^{te} modica erit aliqñ ꝓpor^o.a.ad.b.eo ꝙ i^a ꝓpor^o minorabit̃ ad nõ g^m:ꝛ.a.in nulla pte ꝓpor^{li} maiorẽ ꝓportionẽ depdet q̃3 erit in ꝑn^o eiuſdẽ3 ptis ꝓpor^{lis}.a.ad b.nec etiã tantã:g̃ infinite modicũ veloci^o miorabi^r aliqñ a.q̃3.b.ꝛ ſic erit eȝ in via augmẽtatiõis:ꝙ ifi^{te} modicũ veloci^o tũc icipiet.a.augeri q̃3.b.ꝛ ſic nõ eſt i^a ꝯclõ cõtra qntã.
3 5^{am} ȝnem. ⸿ Arguit̃ tñ ȝ 5^{am} ȝne3 ſic. Si.a.b. ꝯti^e eq̃ue' augmẽtarẽt̃: tũc ſp manerẽt eq̃lia:eo ꝙ vtrũq3 i^{ps} a nõ q̃nto icipit augeri:ergo a fortiori ſi.a.ꝯti^e velocius augmẽtabit̃ q̃3.b.ſemp erit mai',b.q2 tũc erit ꝯti^e mai^o q̃3 ſi ꝑciſe equeue' augeret̃

Solo cū.b. ¶ Pro 1° igitur hāc pōnē negāda est vtraqʒ ꝯña facta q̄ sic declarat̄. Sit.a.in du° mai°.b. ꝛ diminuat 1° ad non q̄tū equeue' ꝛ seq̄ p ꝯnez 2m q̄ equeēito deueniēs ad nō q̄tū e.a. semp erit maius.s.duplūʒ ad.b. eo q̄ eque ꝓpoꝛ minorabunt̄.a.b. ḡ si eꝯ augmentarent̄ eque a nō q̄to.s. equeue' oīo sic nūc diminuūt̄ semp eēt.a. maius.b. ḡ nō valet pm arm: nec 2m valet sicut satis argutū est in ꝯne 6a: ubi ꝓbat̄ q̄ si aliqd̄ icipiat a° in certa ꝓpoꝛne augeri velocius a nō q̄to in infim magna icipit eē ꝓportio q̄titatis tardi° aucti ad q̄titatē veloci° aucti quātacūq̄ʒ modica q̄titas acq̄rat̄: nec est icōueniēs vbi ifinite velox icipit eē vtrūqʒ mot° augmētatōis: q̄ ibi subito infinita lat° remittit̄ vel dep̄dit̄: nec ēt est incōueniēs q̄ vtrūqʒ mot° icipiat esse in infim velox: ꝛ tñ q̄ vn° pro oī instāti erit a° velocior sicut si mot° vn° esset duplus ad aliū ꝑ eque ꝓpoꝛ augmentaret̄ in ifim / sꝑ iste mot° maneret duplus ad aliū ꝛ tñ in infim velox vterqʒ istoꝝ eēt: ꝛ sic staret eꝯ de icepcōe sicut n' est

ꝯ 5m ꝛ 6m de desitiōe. ¶ Alr tñ ar° ꝯ 5m ꝛ 6m. Nā datis istis seq̄ q̄ oē qd̄ a nō q̄to icipit augeri in ifim tarde icipit acq̄rere de q̄te vel ifite velociter quoꝝ vtrūqʒ est fl'm. Staret.n. q̄titatm alic° dep̄di vni° ad nō q̄tū vt ꝯstat: ḡ eꝯ staret vniformis acq̄sitio q̄tis a nō q̄to. Cū tñ ista sequat̄ arguit̄ sic: q̄ si nō sit illud.a. ꝛ incipiat.b. augeri a nō q̄to in du° tardi° q̄.a: tūc sic ar° p ꝯnez sextā: ifita icipit eē ꝓpoꝛ° q̄tis.b. ad q̄titem a. ꝛ a nō q̄to icipit vtrūqʒ augeri: ḡ ifinite veloci° icipit.b. acq̄rere de q̄tate q̄.a. ꝛ.b. finite velo': ḡ.a. infite tarde. vel si b. infite tarde icipit acq̄rere de quātte idez seq̄ vt notū ē. Si vo dr q̄.b. ifite velo' ꝛc. p idez ar° q̄.a. ifinite velo' icipit acq̄rere de quātitate: q̄ sit.c. vnū qd̄ in du° veloci° ꝯti° augeat̄ q̄.a. ꝛ seq̄ q̄ ifinite veloci° icipit.a. acq̄rere d q̄te q̄.c. per ꝯnē sextā: ḡ si.c. aliq̄lr velo': seq̄ q̄.a. in ifim velo': ꝛ sic arguēdū est de.c. re° alteri° veloci° aucti ꝛ sic in ifim: ꝛ ēt sic arguēdū est de.b. q̄ capiat̄ vnū qd̄ ꝯtinue in du° tardi° augeat̄ q̄.b. ꝛ seq̄ q̄ id in infim veloci° icipit acq̄rere q̄titatē q̄.b. ḡ.b. nō in ifim velo' icipit acq̄rere: ꝛ si sic sequit̄ vt prius q̄ in infinitū tarde incipit.a. acq̄rere de quātitate: ꝛ sic arguēdū est de.b. ꝛ sic in infim.

Solo ¶ Pro 1° dicit̄ negādo ꝯnē sic satis ꝓbat arm. pro q̄ tria nōbilia declanēt

1m notabile quoꝝ pm est h. ¶ Si aliqd̄ augeat̄ a nō quāto: ꝛ in oī pte ꝓpoꝛli tpis sue augmētationis augeat̄ ad dum ꝯputando ptes minores v̄sus illud extremū sui tpis: id certe velociter

2m incipiet acq̄rere de quātitate. ¶ Scōm est h. Si aliqd augeat̄ a nō q̄to: ꝛ in oī pte ꝓpoꝛli istius tpis augeat̄ in certa ꝓportiōe vltra dum sic vsqʒ ad triplū vel q̄druplū: ꝛ sic in

3m infim: ifite tarde icipit totū acq̄rere de quātitate. ¶ Tertiū est hoc. Si aliqd augeat̄ a nō q̄to: ꝛ in oī pte ꝓpoꝛli istius tpis augeat̄ in certa ꝓportiōe minori q̄ du° in infim velo'

Probatur 1m. incipit acq̄rere de quātitate. ¶ Primū ꝓbat̄ sic. Si in oī pte ꝓpoꝛli augeat̄ ad dum ꝓportiōalr sicut ps ꝓpoꝛlis est minor alia: ita in ista ꝓpoꝛte quātitas minor acq̄rit: q̄ in pa pte ꝓpoꝛli maiorabit̄ ad dum vocādo maximā ptē p̄mas ptē: ꝛ ita de 2a: ꝛ sic in ifim: cū ḡ iter oēm gm ꝛ suū dum sit in du° maior lati° q̄ iter eūdez ꝛ suū subdum: ḡ in du° maiorē quāttem acq̄ret in pa pte ꝓpoꝛli q̄ in 2a: ꝛ p ꝯñs eque velociter acq̄ret de quātitate in 2a pte ꝓpoꝛli sicut in pma: ꝛ per idem equevelociter in 3a pte ꝓportiōali sicut in 2a ꝛ sic in ifim: posito gra argi q̄ in oī pte ꝓpoꝛli sit vniformis acq̄sitio quātitatis: ḡ certe velociter nūc incipit acq̄rere de

Probatur 2m. quātitate. ps ḡ pm. ¶ Scōm sic arguit̄. Si in pa pte ꝓpoꝛli ꝛ in oī alia augmētabit̄ vltra dum sit.f. illa ꝓpoꝛ° q̄ acq̄ret̄ in oī pte ꝓpoꝛli tūc sic arguit̄. in.f. ꝓportione plus acq̄ret̄ in pa pte ꝓpoꝛli q̄ in 2a: q̄ capiat̄ quātitas quā habebit in fine pe ptis ꝓpoꝛlis: ꝛ seq̄ q̄ illa quātitas se hēbit in.f. ꝓportiōe ad quātitatē hēdaʒ in p° eiusdez ptis vt ps p casū: ꝛ ista quā hēbit in p° eiusdē ptis ꝓpoꝛlis pe erit maior in.f. ꝓportiōe ista quātitate hēda in p° scōe ptis ꝓpoꝛlis. ḡ in.f. ꝓpoꝛne plus acq̄ret in pa pte ꝓpoꝛli q̄ in 2a. ꝯña tenet p h. ¶ Et si sint tres termini ꝯtinue ꝓpoꝛli: tāta est ꝓpoꝛ° excessus pmi supra 2m ad excessū scōi supra 3m: quāta est ꝓpoꝛ° pmi ad 2m vel scōi ad 3m: vt meli° ps vbi tangit̄ de motu locali: ḡ seq̄ q̄ in certa ꝓpoꝛne veloci° acq̄ret quātitatē in pa pte ꝓpoꝛli q̄ in 2a. si eniʒ in du° maiorē q̄titatē p̄cise acq̄ret in pa pte ꝓpoꝛli q̄ in 2a: cū pa ps sit du° ad 2a eq̄uelox eēt acq̄sitio: sʒ n' i pa pte velocior erit q̄ ꝛc.s. acq̄sitio vt ps: ḡ velocior erit ī certa ꝓpoꝛne acq̄sitio quātis in pa pte ꝓpoꝛli q̄ in 2a: ꝛ in eadē ꝓpoꝛne erit velocior acq̄sitio in 2a pte ꝓpoꝛli q̄ in 3a: eo q̄ eadē erit ꝓportio acq̄siti in pa ad acq̄situ in 2a: sicut acq̄siti in 2a ad acq̄situ in 3a: q̄.f. ꝓportio ꝛ sic in infim: ḡ in infim tarde incipit acq̄rere de quātitate: qd̄ fuit ꝓbādum. ¶ Tertiū sic arguit̄. Crescat.a. a nō quāto in oī pte ꝓportionali p certā ꝓportionē minorez q̄ est dupla que sit.c. ꝓpoꝛ°: ꝛ seq̄ q̄ in oī pte ꝓportionali in.c. ꝓportiōe plus acq̄rit q̄ in parte ꝓpoꝛli minori ipsaʒ imediate p̄cedente vt p̄dictū est de.f. ꝓportiōe in ꝯne pma. Cūʒ ḡ.c. ꝓportio sit minor q̄ dupla: seq̄ q̄ velocior acq̄sitio quātitatis erit in 2a pte ꝓportionali q̄ in pa: q̄ si p̄cise in duplo minor quātitas acq̄reret̄ in 2a pte ꝓpoꝛli q̄ in pa: tūc equeuelox eēt acq̄sitio in scōa sicut in pa. sed nūc in 2a plus acq̄ret̄ q̄ tūc: ḡ nūc velocior erit acq̄sitio quātitatis in scōa q̄ in pa. ꝛ in eadez ꝓportiōe erit velocior in 3a q̄ in 2a ꝛ sic in infim: eo q̄ eadē est ꝓportio acq̄siti in pa pte ad acq̄situ in 2a sicut acq̄siti in 2a ad acq̄situ in 3a ꝛ sic in ifinitū: quia in.c. ꝓportiōe 1a hō acq̄sita se habebūt: seq̄ ergo q̄ infinitū velox incipit esse acq̄sitio quātitatis qd̄ fuit ꝓbādū: ꝛ sic nō p̄cedit argm ꝯ sextā ꝯnez: q̄ in casu 1° cōcedendū est q̄.b. in infinitū velociter icipit acq̄rere de quātitate: q̄ existēte.a. certe velociter icipit acq̄rere d q̄titate: seq̄ p illa tria nōbilia q̄ in na ꝓportiōe icipit veloci° nec tardi° augeri q̄ si in oī pte ꝓpoꝛli augeret̄ ad dum: ꝛ iō cū.b. in certa ꝓportiōe tardius icipit augeri: seq̄ p 3m nōbile q̄ in ifinitū velociter incipit b. acq̄rere de quātitate. ¶ Et cōcedendum est ēt q̄ omne qd̄ tardius icipit augeri q̄.b. q̄ illud infinite velociter incipit acquirere de quātitate. nec est incōueniēs q̄ oīa ista tardius aucta q̄.b. in infim veloci° icipiāt acq̄rere de quātitate q̄ ipsuʒ.b. ꝛ tñ.b. in ifinitū velociter icipit augeri vt ꝓbatū est in solone pmi ari ꝯ ꝯnem q̄rtā. ¶ Similr est cōcedendū q̄ oē velocius auctū q̄.a. in aliq̄ certa ꝓportione in ifim tarde icipit acq̄rere de quātte: vt ꝓbat̄ in 2o notabili ꝯ septā ꝯnez: ꝛ addit̄ ille terminꝰ in certa ꝓpoꝛne: q̄ alr staret q̄ in nulla ꝓpoꝛne tardius inciperet tale acq̄rere de quātitate q̄.a. sʒ in casu veloci° iciperet acq̄rere d quātitate q̄.a. vt argutū est in ꝯne 7a: ꝛ sic nō p̄cedit arm.

¶ Ex p̄dictis deducit̄ q̄ in ifim velo' incipit aliqd augeri qd̄ in ifim tarde icipit augeri. incipiāt.n. ifita crescere a non quāto ꝛ augmētet̄ pm in du° veloci° 2o ꝛ 2m in du° veloci° 3o ꝛ sic in ifim: tūc in ifim velo' incipit qdlʒ istoꝝ augeri: q̄ a nō quāto ꝛ in ifim tarde ꝯtinue augmētabit̄ aliqd istoꝝ: q̄ 2m in du° tardius pmo ꝛ sic in ifim. ḡ sequit̄ ꝯclo. Casus ps. incipiat.n. circulus circūuolui remittēdo motū suum a gradu infinito: ꝛ sequit̄ q̄ qdlibet illoꝝ punctoꝝ icipit in infinitū velociter moueri: ꝛ tñ punct° prim° pro oī instāti in duplo velocius mouebit̄ q̄ punct° medius inter ipsum ꝛ centrū ꝛ sic in infim vocādo pm punctū aliq̄ʒ ē punctuʒ in circūferētia vltima. 8a ꝯ

¶ Infinitū tarde incipit aliqd augeri qd̄ infinitā quātitatez incipit acq̄rere: ꝛ infinitū velociter incipit aliqd augeri qd̄ ꝯtinue ifinitū tarde acq̄rit quāttem. Sint enim infinita quāta quoꝝ pmū sit aliquātuʒ ꝛ scōm in quadruplo mai° q̄ pm: ꝛ 3m in quadruplo mai° q̄ 2m: ꝛ sic in ifim: ꝛ augeat̄ pm aliq̄lr ve' ꝛ 2m in du° tardi° ꝛ sic in 9a ꝯ

Regula proportionis.

Probatur 3m.

infim: et sequitur pa particula conclusionis: quia si pm eque perfecte augmenta
retur sicut zm: scdm in quadruplo velocius acquireret de quantitate quam pm.
Sed nunc in duplo velocius incipit pm acquirere de quantitate quam tunc ergo in
duplo velocius incipit zm acquirere de quantitate quam pm: et sic 3m in duplo
velocius zo et sic in infim: cum ergo primo illorum ante quodlibet instans erit
aliqua quantitas acquisita: sequitur quod ante quodcumque instans infinite quantitates erunt
acquisite alicui illorum: et semper tardius aucto maior quantitas acq
ritur quam velocius aucto saltem per tempus aliquod: ergo sequitur pa particula
conclusionis. Secunda primi articuli patet. Sit enim zm eque incepisset augeri sicut pm
eque proportionabiliter inciperet acquirere de quantitate: cum ergo zm
sit quadruplum ad pm: patet quod tunc in quadruplo velocius acquireret de
quantitate quam pm. sed pm nunc in duplo velocius incipit acquirere de
quantitate quam si augeretur eo gradu quo augmentabitur zm: quia nunc
in duplo velocius augmentabitur quam tunc ergo sequitur tertia pa pars conclusionis
et 2a pars sic arguitur. Sint infinita quorum pm sit aliquantum et
zm in quadruplo minus et sic in infim. et diminuatur pm aliqualiter velociter et
zm in duplo velocius et sic in infim per aliquod tempus in quo nullum di
minuatur ad non quantum: tunc zm in duplo tardius incipit deperdere de
quantitate quam pm: quia si pm eque diminueretur sicut zm in quadruplo
velocius deperderet de quantitate quam zm. sed nunc in duplo tardius
incipit pm deperdere de quantitate quam tunc quia in duplo tardius in
cipit diminui quam tunc diminueretur: ergo in duplo velocius incipit
pm deperdere de quantitate quam zm et sic in infim: et semper velocius di
minutum tardius deperdet de quantitate quam tardius diminutum: ergo
si staret econtra positis augmentatio sicut nunc est diminutio
10 ȝ sequeretur conclusio. Si incipiant duo ordines aliquorum a non
gradu crescentium augeri: et pm unius ordinis in duplo velocius
perfecte continue augmentabitur quam zm eiusdem ordinis: et zm in duplo
velocius quam 3m eiusdem et sic in infim: et pm secundi ordinis in duplo
velocius primo primi ordinis: et zm in duplo velocius primo eiusdem
ordinis et sic in infim: sequitur quod infinite velociter et infinitam magnam
quantitatem incipit aliquod primi ordinis acquirere infinite tarde aucti
et infinite tarde continue acquiret aliquid alterius ordinis de quantitate
infinite velociter continue aucti. Sint enim infinita quorum pm sit ali
quantum et zm in duplo maius et sic in infim: et diminuatur primum
aliqualiter velociter et zm in duplo tardius et sic in infim: et diminuantur
ad non quantum in ista hora. Et sint alia infinita quorum pm sit in duplo
minus quam pm illius primi ordinis: et zm in quadruplo minus primo: et sic
in infim. et diminuatur pm illorum in duplo velocius primo alterius or
dinis: et zm in duplo velocius quam pm et sic in infim: et diminuantur
ad non quantum in eadem hora in qua alia diminuentur ad non quantum sicut
apparet posse ex conclusione 3a. quo posito ponitur quod in alia hora au
gmententur omnia a non quanto sicut in 1a hora diminuebantur: et sic
nunc instans pm illius hore: sequitur quod omnia a non quanto incipiunt auge
ri et illius primi ordinis aliquid fiet subito infim: quia in via diminu
tionis fuit aliquid illorum continue infinite quantitatis: et pm aliqualiter
velociter augmentabitur et zm in duplo tardius et sic in infim: sicut
in via diminutionis. Et alterius ordinis pm in duplo velocius augme
tabitur primo illius ordinis: et zm in duplo velocius primo et sic in infim
ut positum est: et tamen infinite modice quantitatis erit aliquid illorum sicut
fuit in via diminutionis: ergo sequitur conclusio. Iste conclusiones licet concedende
sint a ponentibus positionem illam etc. sunt tamen multum mirabiles: quia
sicut in motu locali id quod velocius movebitur nescio plus de
spatio pertransit vel acquiret in alteratione id quod velocius alte
ratur nescio maiorem latitudinem acquirit vel deperdit ita est ut rationabi
le de augmentatione: quod si duo a non quanto augmententur id quod est ve
11 ȝ locius auctum velocius acquirit de quantitate. Item deducitur una
conclusio. scilicet quod aliquod finitum infinite velociter diminuetur continue quod
tamen in 1a hora perfecte deveniet ad non quantum. Dividatur enim a. in partes
proportionales et diminuatur pa pars proportionalis istius ad non quantum in 1a ho
ra: et sic za pars in duplo velocius pa et sic in infim: tunc sic. b infinitum
velociter diminuetur continue: quia si pa pars proportionalis aliter aliqualiter
velociter remittetur: et za in duplo velocius: et 3a in quadruplo
velocius quam pa: et sic in infim: totum infinite velociter remittetur: ergo per
idem infim velociter diminuetur et in hora perfecte deveniet ad non

quantum: quia continuo perfecte diminuetur pa pars proportionalis ad non quantum
sicut aliqua alia ut prius argutum est in conclusione 3a. Pro istis negatur
conclusio: dicitur quod infinite velociter incipit totum diminui et pro omni instanti
finite velociter diminuetur. nam pa pars proportionalis est in duplo maior
za: et in duplo tardius incipit diminui: ergo eque incipit deperdere de
quantitate za pars proportionalis sicut pa. consimiliter patet per illam positionem: et sic de
omnibus aliis partibus proportionabilibus: ideo totum in infim velociter inci
pit deperdere de quantitate: et per consequens infim velociter incipit diminui.
Sed pro omni instanti dato erit za pars proportionalis minor quam subdu
pla ad primam: ideo quod eque incipit deperdere de quantitate sicut pa: et
similiter tunc erit minor quam subdupla et velocius proportionaliter maiorabitur
quam pa: ideo licet in duplo velocius tunc diminuetur za pars proportionalis quam
prima: tamen in eadem proportione tardius deperdet de quantitate quam pa: et
3a tardius quam za in eadem proportione. et ideo tunc totum solum finite
velociter deperdet de quantitate et erit aliquantum: ideo solum fi
nite sibi proportionaliter deperdet: et ideo solum finite velociter diminuetur.
Contra hoc sic arguitur. Ponatur de omni parte proportionali ipsius a. quod
sicut erit b. minor pa: sic velocius diminuetur proportionaliter quam prima: et
sequitur quod totum continue infinite velociter diminuetur. Sicut enim pars a.
proportionalis erit minor pa sic velocius diminuetur: ergo omnis talis pars
continue eque deperdet de quantitate sicut pa: et per consequens sequitur conclusio.
Pro istis dicitur admittendo casum et dicitur quod quocumque instanti da
to erunt infinite partes proportionales diminute ad non quantum: quia tunc ut
patet omnis pars proportionalis continue eque deperdet de quantitate sicut
prima: cum ergo infinite modice quantitatis sint infinite partes
illius: sequitur quod ante quodcumque instans erunt infinite hee partes dimi
nute ad non quantum. Vel sic arguitur. dato aliquo instanti tunc erit
certa pars deperdita a prima parte proportionali: cum ergo infinite sint hee
partes proportionales: quarum nulla erit tante quantitatis sicut illa que
deperditur ante illud instans de pa parte proportionali: et quantacumque aliqua pars
proportionalis manebit ita eque deperdet de quantitate sicut pa ut
argutum est: ergo ad illud instans infinite partes ad non quantum erunt di
minute: et solum finite remanebunt diminuende: et sic pro nullo
instanti immediate post hoc infinite velociter diminuetur totum: et sic non
procedit argumentum. Contra hoc videtur 3a conclusio ponens quod sive equalia
sive inequalia eque sive inequaliter diminuantur equevo deve
niunt ad non quantum. Dicitur quod hoc est verum ubi unum alio
solum finite velocius diminuitur: et ideo additur in conclusione 1a in pro
portione finita: sed sic non est in proposito: ideo argumentum non procedit.
Quantumcumque modicum sit aliquod subito divisum in partes pro 12 ȝ
portionales aliqua certa proportione. Et sit aliud quantumcumque ma
gnum divisum in partes proportionales proportione maiori. Aliqua erit pars
proportionalis minoris maior parte proportionali correspondente maioris.
Hoc arguitur sic. Sit a. nunc divisum sic in hoc partes proportionales
proportione minori que proportio sit c. quantumcumque modice quantitatis
volueris. et sit b. quantumcumque magnum volueris divisum in
partes proportionales proportione maiori quam est c. que proportio sit d.
ita quod pa pars proportionalis b. se habeat ad secundam in d. proportione: et
secunda ad 3am in eadem proportione et sic in infim: et se habeat prima
pars proportionalis a. in c. proportione ad zam et za ad 3am in eadem
proportione et sic deinceps. Et arguitur quod aliqua pars proportionalis a.
est maior parte proportionali b. correspondente. Dividatur enim hora in partes
proportionales proportione dupla: ita quod minores sint terminate ad hoc in
stans: et crescat aliquid a non gradu quantitatis: et acquirat in omni parte
proportionali istius hore unam partem proportionalem illius a. secundum illam di
visionem. scilicet in prima parte proportionali illius hore acquirat primam
partem proportionalem illius a. et in secunda secundam et sic deinceps: et acq
rat unum aliud in omni parte proportionali proportionalem partem b. corres
pondentem parti a. acquisite in eadem parte temporis: tunc sic arguitur. illa
duo a non quanto inceperunt crescere: et id quod acquirit partes a. tardius
proportionabiliter maiorabitur quam illud quod acquirit partem b. quia id
quod acquirit partem a. augebitur in omni parte proportionali illius
temporis per c. proportionem et aliud per d. proportionem ut notum est
ex casu. ergo per quartam et septimam conclusiones id quod acquiret quantitatem a. per
magnum tempus erit alio maius: et sic velocius per magnum tempus acq

tit id de q̃tit^e q̃ aliud: ⁊ in oĩ pte ꝓpor^li illi^9 tpis acgrent
ptes ꝓpor^les correſpondentes.a.ḡ multe ptes ꝓpor^les.a.ſūt ma
iores ptib^9 ꝓportionalib^9 correſpondentib^9.b.ꝙ fuit ꝓbādū.
Scd̄a ꝑbatio ꝯclu ſionis val de ſubtilis ¶ Ad idez ſic ar^r. Signet̄ vnū mobile.c. qđ in p^a parte
ꝓpor^li.a.ſufficiat moueri in.c. ꝓpor^ne velocius preciſe q̃
in ſcd̄a: ⁊ in.c. ꝓportione velocius in ſecunda q̃ in tertia ⁊
ſic in infi^m: ⁊ ſufficiat id mobile moueri equeue^r in oĩ pte
ꝓpor^li.b.ſm ſuā diuiſionē ſicut in pte ꝓpor^li correſpondēte.a.
⁊ arg^r ſic. In oĩb^9 ptib^9 ꝓportionabilib^9 correſpondētib^9.a.b.c.
equeue^r ſufficit mouere ⁊ ſufficit ptrāſire.b. mediāte mo
tu ſuo ⁊ nō ſufficit ptrāſire.a.ḡ aliq̄ pars ꝓpor^lis.a.eſt ma
ior pte correſpondente.b.ꝯña ſic arguit̄. Si oĩs pars ꝓportio
nalis.a.ſit minor pte correſpondente in.b.maioret̄ ad eq̃litatē
ptis correſpondentis: ⁊ ſeq̄t ꝙ ſi tūc ſufficiet ptrāſire.a.a mul
to fortiori nūc illō ſufficit pertrāſire.a. q2 queliz illaꝝ ptiū
eſt minor q̃ nunc eſſet: ḡ ex oppoſito ſeq̄t opp^m.ḡ ꝯñtia eſt
bona. vel ſic arguit̄. Si queliz pars ꝓpor^lis.b.ſit maior pte
correſpondente.a. ⁊ in oĩb^9 bꝫ ptib^9 correſpondentib^9 erit mot^9
eq̃lis: ḡ ad curſuz ptis ꝓpor^lis.b. pertrāſitionē maius tp̃s
reqrit̄ q̃ ad pertrāſitionē ptis correſpondētis.a. ḡ ſi totum.b.
ſufficiet ptrāſire in tpe finito ſil'r ⁊.a.ḡ ꝯña que eſt fcā eſt
bona. ⁊ añs arguit̄. ſ. ꝙ.c. nō ſufficiet pertrāſire.a. mediā
tib^9 illis motib^9: q2 p̊ma pars ꝓpor^lis.a. eſt in.c. ꝓportiōe
maior z^a: ⁊ in.c. ꝓpor^ne erit mot^9 velocior in p^a pte ꝓpor^li
q̃ in z^a: ḡ tantū tp̃s reqrit̄ ad pertrāſitionē p̊me ptis ſicut
ſcd̄e ⁊ ſic in infi^m: ḡ in nullo tpe finito ſufficit.c. pertrāſire
totū.a. ⁊.c. ſufficit ptranſire.b. in tpe finito. qđ ſic arguit̄. in
c. ꝓpor^ne ſufficit.c. veloci^9 moueri in p^a parte ꝓpor^li q̃ in
z^a: ⁊ maior eſt ꝓportio p^e ptis ꝓpor^lis ad z^am q̃.c. ꝓpor^o:
ḡ in minori tpe ſufficit pertrāſire ſcd̄az ptē ꝓpor^lem q̃ p^am.
ꝯñtia tenet: ſi.n.z^a pars ꝓpor^lis eſſet in.c. ꝓportiōe minor
p^a: tūc in eq̃li tpe p̄ciſe ſufficeret pertrāſire ſcd̄az ſicut p̊mā.
ſed nūc eſt z^a pars minor q̃ tunc eſſet: ḡ nūc in minori tpe
ſufficit pertrāſire ſcd̄az ptē ꝓpor^lem.b. q̃ p̊mā: ⁊ in eadem
ꝓpor^ne in minori tpe tertiā q̃ ſcd̄az ⁊ ſic in infi^m: ḡ totū.b.
in tpe finito ſufficiet pertrāſire. ꝯña tenet per hoc ꝙ ſi ſint
infinita ꝓpor^lia eq̃li ꝓportiōe maioris ineq̃litatis totū ex
his cōpoſitū fiet ſoluz finitū: vt manifeſte pꝫ cuiliz intuēti
ꝓpor^le eq̃li ꝓportione maioris ineq̃litatis ſiue nāz ꝓpor
Correl^m vel ſe cōclu ſio 15^a. tionis. ¶ Ex hoc ſeq̄t ꝙ ipoſſe eſt per ꝯtinuū crementum
infinitoꝝ a non q̃to aliquā ꝓpor^nem ſucceſſiue acqri inter
illa: ita ꝙ ſemꝑ ſit tāta ꝓpor^o p̊mi ad z^m ſicut ſcd̄i ad 3^m ⁊
ſic in infi^m: ⁊ ꝙ ꝓportio inter illa ꝯtinue maioret̄: q2 dato
fine ſeq̄t ꝙ tūc erūt infinita ꝓpor^lia aliq̄ ꝓportiōe.ſ. ma
iori q̃ ante finē: ḡ per p̊mā ꝯnez an̄ finē erit aliqđ iſtoꝝ
maius q̃ in fine: ⁊ per ꝯñs nō ꝯtinue maiorabit̄ i^a ꝓpor^o
per maiorationē iſtoꝝ: q2 infinita illoꝝ nec̄io minorabūt̄
Ↄ ꝯnes vt argutū eſt. ¶ Cōtra illas ꝯnes arguit̄ ſic. Signent̄ infi
nita ꝓportionabilia aliq̄ certa ꝓportiōe ⁊ minoret̄ p̊mūꝫ
ad nō q̃tū in iſta hora ⁊ varient̄ oĩa a^o: ita ꝙ ꝓportiones
iter i^a minorent̄ ad nō gradum in hora i^a manēte iter oĩa
p̊ma eadez ꝓpor^ne ſic ꝙ iſti termini cōtinue ſint ꝓpor
tionales. caſus pꝫ: q2 pñt variari ſic: ꝙ pro oĩ inſtāti inter
illa ſit quecūqꝫ ꝓpor^o poſſi. Quo poſito arguit̄ ſic. nūc eſt
aliq̄ ꝓportio inter i^a ifinita que diminuent̄ ad nō gradus
in eodem tpe in quo p^m minorabit̄ ad nō q̃tū: qđ nō eſſet
niſi qđliz illoꝝ diminuat̄ in codez tpe ad nō q̃tū: q2 aliter
inter p̊mā ⁊ ſcd̄az nō maneret ꝯtinue ꝓpor^o maioris ineq̃
litatis: ḡ per minorationē illoꝝ ad nō q̃tūz erit ſucceſſiue
deꝑditio ꝓportiōis inter i^a infinita manētia ſemꝑ ꝓpor
tionabilia ꝯtinue: ḡ eꝫ per maiorationez illoꝝ a nō q̃to
poſſet eſſe hꝫ acq̄ſitio ꝓportionis: ḡ hꝫ ꝯcl'ones ſunt falſe.
Solo ¶ Pro iſtis dr̄ cōcedendo ꝯnes vt arg^m ſatis ꝓbāt. Et ad
argu^m in oppo^m dr̄ ꝙ multa iſtoꝝ per magnū tp̃s maiora
bunt̄: ⁊ iſta eadē ꝯtinue poſt minorabunt̄: ſꝫ nec̄io ꝑ totū

illud tp̃s ifinita maiorabunt̄: ⁊ pro oĩ inſtāti citra finē ſolū
finita miorabunt̄: ⁊ ſic ſi aliq̄ a nō q̃to creſcāt oĩa iſta inci
perēt maiorari. ſed pro oĩ inſtāti poſt hoc ifinita illoꝝ mi
norabunt̄ ⁊ ſoluz fi^ta maiorabūt̄: ⁊ ſic nō erit i^a ſucceſſiua
acq̄ſitio ꝓpor^nis ꝑ coꝝ maiora^nez: ſꝫ ꝑ aliq^r maiorationē ⁊ ꝑ
aliquoꝝ miora^nez: plus tñ erit mioratio miorꝰ q̃ maiorꝰ.
Idē tñ declaꝛ̄ ſic. ſit gr̄a arg^m ꝓpor^o q̄drupla inter i^a. ⁊ ar^r
ꝙ ſi p^m minorabit̄: ita tñ ꝙ ꝓportio tota minoret̄ ad ſub
dupluz erit dare certū ꝙ maiorabit̄ ⁊ oĩa minora iſto tūc
etiā maiorabunt̄. Si enim p̊mū minorabit̄ minus ꝓpor^r
q̃ ad ſubduplū: ⁊ nūc eſt ꝓpor^o q̄drupla iter p^m ⁊ z^m ⁊ ſic
erit dupla: ḡ tūc erit maioratio ſcd̄i ⁊ oĩuz alioꝝ vt notū ē.
Si.n. ꝓpor^o ſcd̄i ad oĩa a^o miorabit̄ ⁊ z^m maiorabit̄ req
rit̄ ꝙ oĩa a^o maiorent̄. Si ḡ p^m miorabit̄ ad ſubq̄dru^m: ⁊
nūc eſt ꝓpor^o q̄drupla iter p^m ⁊ z^m: ⁊ tūc erit dupla: ḡ tunc
z^m erit in du^o min^9 q̃ nūc eſt: vel nō erit ita modicū tūc ſicut
eſt i^d ſubduplū. Si z^m miorabit̄ ad ſubdu^m p̄ciſe: ⁊ nūc eſt
iter z^m ⁊ p^m ꝓpor^o q̄drupla ⁊ fiet dupla: ḡ 3^m nō miorabit̄.
ꝯña ſatis ſc^r: ⁊ ſic ſc^r ꝙ qđliz min^9 illo 3° maiorabit̄. Si fie
ret z^m nō in du^o min^9 ꝙ iā eſt, ſeq̄t ꝙ 3^m ⁊ qđcūqꝫ min^9 3°
maiorabit̄: vt p̄dictū ē de p^o ⁊ z^o. Si ḡ p^m miorabit̄ ad ſub
octuplū, ſeq̄t ꝙ z^m miorabit̄ ad ſubq̄dru^m 3^m ad ſubdu^m:
⁊ ꝑ ꝯñs 4^m nō miorabit̄: ⁊ ſi ſic qđliz min^9 eo. ſ. 4° maiora
bit̄. oēs ꝯ^e intermedie patēt intuēti: ⁊ ſic ꝑ quācūqꝫ ꝓpor^nez
magnā miorabit̄ p^m: ſeq̄t ꝙ erit deuenire ad aliqđ certuz
Regla ꝓportionū. qđ maiorabit̄: ⁊ ſic qđliz min^9 eo tūc maiorabit̄. ¶ Naz ſi
ſint aliq̄ duo ꝓpor^lia aliq̄ ꝓpor^ne ⁊ ꝓpor^o iter i^a mioret̄ ꝑ
vtriuſqꝫ minorationez, ꝓpor^o deꝑdita a maiori. i. ꝑ quā fiet
min^9 erit maior ꝓpor^ne ꝑ quā min^9 miorabit̄ ꝑ tantā pro
portionē q̃ta eſt ꝓpor^o iter mai^9 ⁊ min^9 deꝑdēda: vt ſi ſit
ꝓpor^o iter mai^9 ⁊ min^9 deꝑdenda p̄ciſe dupla ꝑ minora
tionē vtriuſqꝫ, ꝓpor^o ꝑ quā miorabit̄ mai^9 excedit ꝓpor
tionē ꝑ quā miorabit̄ min^9 ꝑ ꝓpor^nez iſtā: vt ſi mai^9 mino
ret̄ ad ſubduplum ⁊ minus minorabit̄ ad ſexgaltertū: ⁊ ſi
mai^9 ad ſubq̄dru^m minus ad ſubduplum: ⁊ ſic deſcēden
do ꝑ oĩa. ¶ Hec regl'a declaꝛ̄ gnāl'r. Sit eniz.a. mai^9 ⁊.b. a.16. mino ret̄ ad.2.
min^9: ⁊ ſit.c. ꝓpor^o iter illa q̄ propor^o diminuet̄ ꝑ minora eſt diui
tionē a.b. deꝑdendo.d. ꝓpor^nez. ⁊ ſit.c. tota ꝓpor^o per quā dio.
fiet.a. min^9 ⁊ ſit.f. aliqđ 3° ad qđ.a. tūc ſe hēbit in.c. ꝓpor^ne b.4.ad.2.
qđ.f. nūc ſit eq̃le.b. Et arg^r ꝙ in fine ꝓpor^o.a. ad.f. excedet c. ꝓportio
ꝓpor^nem.a. ad.b. per.d. ꝓpor^nem vt pꝫ ꝑ caſum: q2.c. ꝓpor^o inter iſta
excedit ꝓpor^nem q̄ in fine erit iter.a. ⁊.b. per.d. ꝓportionē dupla ſex
vt poĩt: ḡ.b. tūc ſe hēbit ad.f. in.d. ꝓpor^ne. ꝯña tꝫ ꝑ h̄ ꝙ ſi galtera.
ſint 3° ꝓpor^lia ꝓpor^ne maioris ieq̃litatis ꝓpor^o p̊mi ad 3^m ex d. ꝓportio
cedit ꝓpor^nez p̊mi ad z^m ꝑ ꝓpor^nez z^i ad 3^m: eo ꝙ i^a ꝓpor^o deꝑdēda
ex iſtis duab^9 intermedijs cōponit̄. ſꝫ.b. ⁊.f. nūc ſunt eq̃lia: iter ipſa
ḡ ꝓpor^o per quā minorabit̄.f. excedit ꝓportiōez per quā dupla.
miorabit̄.b. ꝑ.d. ꝓportiōez: q2 ꝓpor^o q̃titatis illoꝝ in p̊n^o e. ꝓportio
ad q̃titatē.f. in fine cōponit̄ ex proportiōe illius q̃titatis que deꝑ
ad.b. ⁊ ꝓportiōe.b. ad.f. q̄ eſt.d. ꝓpor^o: ſꝫ.f. minorabit̄ ꝑ.c. dit ab.a.
ꝓportiōez ꝑ quā.a. miorabit̄: q2 al'r nō maneret eadez ꝓ quadru
portio iter.a. ⁊.f. que nūc eſt iter i^a: ḡ.c. ꝓpor^o ꝑ quā mioza pla.
bit̄.a. excedet ꝓportionez ꝑ quā miorabit̄.b. per.d. ꝓpor f.4. dimi
tionē: ⁊ i^a eſt ꝓpor^o deꝑdita iter.a. ⁊.b. ḡ ſeq̄t ꝙ ſint ꝓbā nuit̄ ad
duz. Si ḡ tūc iter i^a infi^ta ſit ꝓpor^o aliq̄ ⁊ p^m mioret̄ ⁊ z^m: 1.
⁊ ſic deinceps de alijs que debēt minorari: tūc data ꝓpor Regla ꝓportionū.
tione per quā p^m miorabit̄ an̄ inſtās certū datū: ita ꝙ pro
portio.a.ſ. p̊mi ad.b. z^m miorabit̄ per.d. ꝓportionē: ⁊ ſeq̄t
per ſarguū ꝙ ꝓpor^o ꝑ quā p^m fit min^9 excedit ꝓportionē
per quā z^m miorabit̄ per.d. ꝓportionē: ⁊ i^a per quā z^m fiet
min^9 excedit ꝓportionē per quā 3^m fiet min^9 per.d. ꝓpor
tionē: ⁊ ſic diſcurrēdo per oĩa q̄ miorabunt̄. cū ḡ ꝓportio
per quam p̊muꝫ minorabit̄ cōtineat ſolum finitas.d. pro
portiones: ſeq̄t ꝙ eſt deuenire ad vnū certū qđ nō deꝑdet
maiorez ꝓpor^nem q̃ ſit.d. ꝓportio: ⁊ per ꝯñs id qđ eſt ſibi

primū nō minorabiť: ſed q̄ͦlʒ eo min^{9} maiorabiť: aľr. n. nō mīorareť ppor^{o} inter i^{a}. ꝯña pʒ: ſi enīʒ ꝯtinēt ſo^{m} duas. d. ppor^{nes}: ſi i^{a} ppor^{o} ꝑ quā minorabiť p^{m} excedet ppor^{nem} deꝑditā a z^{o} quā. ſ. z^{m} minora^{r} per vnū. d. ⁊ 3^{m} ꝑ z^{o}. d. ſeqꝫ ꝙ i^{a} ppor^{o} ꝑ quā minora^{r} p^{m} excedet ppor^{nem} ꝑ quā minorabiť z^{m} per. d. ppor^{nem}: ḡ 3^{m} nō minora^{r}. ꝯña eſt ſatis nō. ḡ id z^{m} ſolūʒ deꝑdet vnā. d. ppor^{nem}: ⁊ ſi ſic i^{d} 3^{m} nullaʒ proportioneʒ deꝑdet nec aliqͦ eo minus: ⁊ ſic arguēdum eſt. quotcunqʒ. d. ppor^{nes} cōtineat ppor^{o} per quā minora^{r} p^{m} qͦ. ſ. tale ſigātū ꝑ numerū illaꝝ. d. ppor^{num} nō deꝑdet maiorē pportionē ꝙ̄ eſt. d. vt ſi ꝯtineat centū id centeſimū nō deꝑdet niſi vnā ppor^{nem}. d. ad maꝫ^{m}. Et ſi ꝯtineat mille id milleſimū nō minora^{r} per maiorem pportionē ꝙ̄ pro. d. ⁊ ſic eſt veri: quotcūqʒ. d. ppor^{nes} cōtineat adeq̄te tota por^{o} ꝑ quā ſiet p^{m} min^{9}. ⁊ h̄ ſi. d. ſit ꝑs aliquota. Si vͦ. d. pportio nō ſit ꝑs aliquota re^{e} tota ppor^{nis} deꝑdende ꝑ quaʒ. ſ. p^{m} minorabiť: tūc aliquotiēs ꝯtinet. d. ⁊ aliquā pportionē vltra que nō eſt ꝑs. d. Signeť ergo numer^{9} quotiēs iſta proportio. d. pportionē ꝯtinet: ⁊ ſigneť vnū iſtoꝝ qͦ ſigneť ꝑ illum numerū: ⁊ pͥmū illoꝝ ꝑter vnum nec̄io maiora^{r}: vt ſi pportio per quā p^{m} minora^{r} ꝯtineat ſolum tres. d. proportiones ⁊ vnā aliā ppor^{nem} vltra minorē ꝙ̄ eſt. d. vt poſita ſemꝑ ꝯſili ppor^{ne} inter i^{a} īfinita ſicut iter p^{m} ⁊ z^{m}: illͦ vltimū nec̄io maiorabiť. Sit enīʒ. c. i^{a} ppor^{o} quā continet vltra. d. que. ſ. nō eſt ꝑs aliquota. d. ⁊ cū tunc p^{m} deꝑdet vl' minora^{r} per tres. d. ppor^{nes}: ⁊ per. c. ⁊ ppor^{o} inter p^{m} ⁊ z^{m} minora^{r} ſolum per. d. ppor^{nem}. ḡ per ꝑargutā z^{m} deꝑdet vel minorabiť per duas. d. pportiōes: ⁊ per. c. ⁊ ſi ſic tunc 3^{m} minorabiť per vnā. d. pportionē: ⁊ per. c. ⁊ per ꝯñs 4^{m} minorabiť ſolūʒ ꝑ. c. pportionē: ⁊ ppor^{o} inter 4^{m} ⁊ 5^{m} minorabiť per. d. ppor^{nem} que eſt maior ꝙ̄. c. ḡ id 5^{m} maiorabiť. ❡ Oēs iſte ꝯ^{e} intermedie tenēt per id mediū ꝑnotatum: vbi pportio maioris ineq̄litatis minorať ꝑ vtriuſqʒ termini mīorationē ppor^{o} per quā minorabiť p^{m} excedit pportionē ⁊c̄. Et ſi ſic: ſi pportio qua ſiet p^{m} minus contineret duas ppor^{nes}: ⁊ vnā ei^{9} ꝑtē vltra 4^{m} deberet maiorari: ⁊ ſic quotiēſcūqʒ iſtā. d. ppor^{nem} ꝯtineat. pʒ ḡ ſolo ar^{m}. Si enīʒ. a. nō q̄ͭo incipiāt aliq̄ creſcere: ita ꝙ inter i^{a} ꝯtīnuē manētia pportionalia acqͥrať ſucceſſiue aliq̄ pportio pro quocūqʒ inſtāti dato minorabunť infinita iſtoꝝ ⁊ ſolū finita maiorabunť: ⁊ ſic nō ꝓcedit arg^{m}. ❡ Nota ꝙ cōcluſiones 8^{a} 9^{a} 10^{a} 14^{a} ſūt ſimpl'r vere penes qͦcūqʒ velocitas augmētationis attendať ⁊c̄.

z^{a} pō **Alia poſitio** ponit ꝙ velocitas augmētatiōis attēdiť penes q̄ͭitatē acq̄ſitā nō habēdo reſpectū quouis mō ad p̄ehabitā: ita ꝙ ſiue eq̄lia ſiue inequalia eq̄ue^{r} acqͥrāt de q̄ͭitate i^{a} eq̄ue^{r} augmētabūť.

ꝯ pōneʒ ❡ Contra quā pōneʒ ar^{r}: qꝛ tūc ſequereť ꝙ. a. ⁊. b. ſint duo eq̄lia que ꝯtī^{e} eq̄ue^{r} augmētabunť: ⁊ tñ vnū ꝯtinue erit min^{9} a^{o}. Sint enīʒ. a. ⁊. b. eq̄lia vtrūqʒ gr̄a argu^{ti} pedale: ⁊ acqͥrat vtrūqʒ per maiorationē vni^{9} medietatis pedale: ⁊ deꝑdať q̄ͭitas in a^{o} me^{te}. b. tardius tñ ꝙ̄ quātitas acquirať: ⁊ non ſiat deꝑditio q̄ͭi^{tis} in. a. ⁊ ſeqꝫ ꝙ. a. ꝯtī^{e} eq̄ue^{r} ꝑciſe acqͥrit de q̄ͭitate ſicut. b. ⁊. a. ꝯtinue erit maius. b. eo ꝙ. b. aliquā q̄ͭi^{tem} deꝑdet ⁊ nō. a. ḡ ꝑ pōneʒ eq̄ue^{r} augmētabunť: ⁊ tñ. a. ꝯtī^{e} erit maius. b. ḡ ſeqꝫ ꝯclō. Si vͦ dicať ꝙ poſitio tenet vbi nō eſt deꝑditio q̄ͭitatis: tūc inſufficienter ponit: eo qͦ dicit ꝙ nō erit reſpect^{9} hn̄dus ad q̄ͭitateʒ

z^{o} p̄ehabitā. ❡ Itē ex hac pōne ſeqꝫ ꝙ aliqd ſimul augmētabiť ⁊ diminueť. Sit enīʒ. a. cui^{9} vna medietas maioreť ⁊ alia eq̄ue^{r} minoreť: ⁊ ſequiť ꝙ aliqd ſil' augmētabiť ⁊ diminueť: qꝛ exquo nō erit r^{us} ad q̄ͭitatē p̄ehabitā ⁊ erit acq̄ſitio q̄ͭitatis eq̄lis deꝑditioni: ḡ augmētabiť ⁊ per idē

3° diminueť. ❡ Itē ex hac pōne cōter deduciť ꝙ ſi digitꝰ hōis augmentareť ꝙ tot^{9} hō eq̄ue^{r} augereť cū i^{o} digito qͦ eſt ꝯ modūʒ loquēdi. ❡ Itē ex hac pōne ſeqꝫ ꝙ nihil pōt vniſo^{r} augeri quo ad ſubiectā ꝙ queliʒ ꝑs eq̄ue^{r} augeať cū toto vel cū a^{a} ꝑte: qꝛ tūc queliʒ ꝑs eq̄leʒ q̄ͭ^{tem} acqͥrit cū toto: ⁊ ſic ſubito fieret totū inſi^{m}. ꝯñs vꝫ tñ falſuʒ: qꝛ aliqd pōt vniſo^{r} alterari quo ad ſubm ⁊ aliqd vniſo^{r} moueri localr̄: ḡ per ideʒ aliqd pōt vniſo^{r} augeri.

Pro iſta mā pōt corrigi pō: ⁊ dī ꝙ velocitas augmētatiōis attēdiť penes acq̄ſitionē exceſſus ſupra q̄ͭi^{tem} p̄ehabitā. Uel ſub aliis v̄bis velocitas augmētatiōis attēdiť penes receſſuʒ a termino a quo incipit i^{o} res maiorari v̄ſus terminū ad quē ſupra. Et velocitas diminutiōis attēdiť penes receſſuʒ a termino ſub quo eſt i^{o} q̄ͭitas v̄ſus terminū ad quē. Et h̄ pō tenet ḡnaliter ſiue ſit in alia ꝑte diminutio ſiue nō: vt ſi. a. nec eſſet aliquātuʒ qͦ ſm vnā ei^{9} me^{tem} acqͥrat pedale: ⁊ ſm aliā deꝑdat ſemipedale: ⁊ eſſet vnū aliud ſiue ſibi eq̄le ſiue ineq̄le qͦ acqͥret ſemipedale nihil deꝑdendo i^{m} z^{m} eq̄ue^{r} augmētarenť. ⁊ ſi in aliquo ſit eq̄lis deꝑditio q̄ͭitatis ſicut acq^{o} totum nec augmentabitur nec diminueť ſicut ſi medietas alic^{9} intenſi eq̄ue^{r} intendereť ſicut alia remittiť totum nec intēdiť nec remittiť ſed ſicut illud alterareť: ita iſtud moueret ad q̄ͭitatē: īpoſe tñ eſt aliquid moueri motu ad q̄ͭitatē vbi n^{a} ei^{9} ꝑs augmētareť vel diminuať. ❡ Cōtra hāc pōneʒ ar^{r} per z^{o} vlti^{a} arg^{ta} ꝯ pōneʒ pͥmā ad que dī ꝯ 3um cōcedendo ꝯnes ad quas deduciť vn̄ p^{m} nō eſt īcōueniēs. Uulgus tñ multotiēs capit illuʒ terminū eq̄ue^{r} pro iſto termino eque ppor^{r}: ⁊ ſic negat illō ppon^{m}. Ad aliud ar^{m} etiā nō eſt incōueniens accipiēdo vniſo^{r} augeri ſic ꝙ oīs ꝑs eq̄ue^{r} cūʒ a^{o} augereť. ſed bñ eſt poſe ꝙ oīs ꝑs eq̄lis acqͥrat eq̄l'r de q̄ͭitate cū ꝑte ſibi eq̄li. ſed hoc nō eſt vni^{r} augeri: imo vbicūqʒ aliqd augebiť per totū infinitū tarde nec̄io augebiť aliq̄ eius ꝑs ſicut īfinite modica eſt aliq̄ ꝑs ipſius. Et ad arg^{m} in opp^{m} de alteratiōe nō cōcludit: qꝛ in intēſione eque itenſa pōt eē ꝑs cūʒ toto cui^{9} eſt ꝑs: ⁊ eq̄ue^{r} acqͥrere de intēſiōe ſicut aliq̄ ei^{9} ꝑs. Silr. n. in motu locali velocitas mot^{o} attēdiť penes punctū velociſſime motū ſi aliqs ſit talis ⁊ eq̄ue velocꝫ pōt eē mot^{9} puncti velociſſime moti cū motu toti^{9} ⁊ eq̄leʒ lineā pōt deſcribē: ſʒ in augmētatiōe īpoſe eſt ꝑtē aliquā eē tot^{9} finiti qn totuʒ ſit illa ꝑte maius: ⁊ ſic augmētatio ſoluʒ ꝯſiſtit in extēſione ⁊ ar^{m} nō ꝓcedit: ſi enīʒ totū ⁊ ꝑs eq̄ue^{r} augereť a nō q̄ͭo nulla pōt poni rō q̄re totū ⁊ ꝑs nō ſemꝑ eſſent eq̄lia ſicut ſi totum ⁊ pars a nō gradu eq̄ue^{r} intēderenť ſemꝑ manerēt eq̄ intenſa: ⁊ ſic reputo illā pōneʒ inter oēs alias fore verā.

In iſta mā pōt dubitari nūqd ſi a^{d} per totum diminuať ſequeť ipſuʒ ſubito fieri nō q̄ͭū. ⁊ arg^{r} ꝙ ſic: qꝛ exquo per totū incipit eſſe diminutio cuiuſlʒ ꝑtis illi^{9} q̄ͭitatis īcipit aliq̄ pars deꝑdi: ḡ ſubito tota deꝑdeť. Probať ꝯña: qꝛ ſi aliq̄ pars illi^{9} remanebit. Cōtra. illi^{9} deperdiť aliq̄ pars: ḡ nō tota i^{o} remanebit. ❡ In opp^{m} arg^{r} ſic. Dato iſto ſeqꝫ ꝙ nihil per tp̄s pōt diminui. ꝯñs falſuʒ: ergo ⁊c̄. ❡ Pro quo dī negādo i^{am} dubitationē. ⁊ ad arg^{m} negať aſſumptū: qꝛ imaginādū eſt de q̄ͭitate que in ſe cōtinet ꝑtes: ita ꝙ ſi cuiuſlibet ꝑtis aliqua pars deperdereť nulla remaneret vt ꝓbat arg^{m}. ſed bene ſequiť exquo per totū incipit diminui ꝙ cuiuſlʒ ꝑtis q̄ͭitatiue ſubiecte iſti qualitati incipit aliqua pars q̄ͭitatis deperdi que illi ꝑti ineſt: exquo tñ non ſequiť ꝙ ſubito perueniet aliqua talis mā ad nō q̄ͭuʒ ſicut in exemplo: ſi foret vnū calm ſummuʒ ⁊ vndiqʒ deperdereť caliditatis medietas: ita ꝙ remaneret ad oēm punctū caliditas in gradu medio cuiuſlʒ ꝑtis iſtius calidi deperdereť aliq̄ caliditas que iſti parti ineſt: nō tñ cuiuſlʒ ꝑtis caliditatis deperdereť aliq̄ pars: qꝛ caliditatis in fine remanētis nulla pars deperdeť: ⁊ ſic dī in ꝓpoſito: ⁊ ſic nō ꝓcedit argumentum.

Correctio pō et pōnis. | Dubium | Solo

Du^m 2^m p^e ꝯclo Regla ꝑ porcioné.

Qualiter aliqđ ſubm eſt alio maius ꝯtingit dubitare. Arguit' tn̄ ꝙ.a.eſt ꝑciſe duplū ad.b.ꝛ tn̄.a.eſt maius q̄ȝ duplū. Et ꝑ captat' 1° ſup^e. Si aliqua ad alia in eadē ꝓpor^ne cōparent' ſic vnū ſe hȝ ad ſui cōparē: ita aggregatū ex oībus cōparis ſe hȝ ad oīa ſil' ſumpta ad que cōparatio fit. H pȝ in ꝓpor^be 2 5° Euclidis. Sit g̊.b.pedale ſm oēs dimēſiones: ꝛ.a.bipedale ſm oēs dimenſiones: tūc ꝙ.a.ſit ꝑciſe duplū ad.b.arg' ſic. Lōgitudo.a.eſt dupla ad lōgitudinē.b.ꝛ latitudo.a.eſt dupla ad latitudinē.b.ꝛ ꝑfunditas.a.eſt dupla ad ꝑfunditatē.b.g̊ cum tota q̄titas.a.ſit cōpoſita ex lōgitudine latitudine ꝛ ꝑfunditate: ſeq̄t ꝙ.a.eſt dupla ad q̄titatē.b.ſeq̄t g̊ ꝙ.a.eſt ꝑciſe duplū ad.b.q2 ſic lōgitudo.a.ſe hȝ ad lōgitudinē.b.ita iuxta pōnē aggregatū ex lōgitudine latitudine ꝛ ꝑfunditate.a.eſt duplū ad aggregatū ex lōgitudine latitudine ꝛ ꝑfunditate.b.ꝛ per ꝯñs.a.eſt ꝑciſe duplū ad.b. Et ꝙ.a.ſit plus q̄ȝ duplū ad.b.arg' ſic. Sit.c.vnū aliud ꝑciſe in duplo lōgius b.ꝛ eq̄lis latitudinis ꝛ ꝑfunditatis cū eodē.b.tūc.c.eſt duplū ad.b.q2 vtraq̄ȝ medietas.c.eſt eque lōga ꝛ eque lata ꝛ eque ꝑfunda cū toto.b.vt pȝ: ꝛ totū.c.eſt duplū ad ei^9 medietatē.g̊ totū.c.eſt duplū ad.b.ꝛ.a.eſt maius.c.eo ꝙ.a.eſt eque lōgū cū.c.ꝛ in duplo latius ꝛ in duplo ꝑfundi^9.c.g̊ ſequit' ꝙ.a.eſt plus q̄ȝ duplū ad.b.imo.a.eſt octuplū ad.b.q2 ſit vnū eque lōgū cū.a.ꝛ in duplo lati^9.c.ꝛ eque ꝑfūdū cū.c.q̄ȝ ſit.d.tūc.d.eſt duplū ad.c.q2 vtraq̄ȝ medietas.d.diuidēdo ipm ſm latitudinē eſt equalis.c.q2 eſt eque lōga ꝛ eque lata ꝛ eque ꝑfunda: tūc vt ꝯſtat ꝛ totū.d.eſt duplum ad ei^9 medie^tē.g̊ totū.d.eſt duplū ad.c. Cōſilr arg' ꝙ.a.eſt duplū ad.d.ꝛ ſeq̄tur.a.eſt duplū ad.d.ꝛ.d.duplū ad.c.ꝛ.c. duplū ad.b.g̊.a.eſt octuplū ad.b.vt pȝ in numeris.g̊ ſeq̄t

2ª ꝯclo. ¶ A.maiorabit' veloci^9.b.ꝛ tn̄ eque ꝑciſe velo'cū.b. Sint eīȝ.a.ꝛ.b.due ſupficies eq̄les vtraq̄ȝ g̊a ar^li pedalis tā ſm lōgitudinē q̄ȝ ſm latitudinē: ꝛ maioret'.a.ad ſuū duplū tā ſm lōgitudinē q̄ȝ ſm latitudinē: ꝛ maioret'.b.ſoluȝ ſm lōgitudinē: ita tn̄ ꝙ.b.in duplo veloci^9 acq̄rat de lōgitudine q̄ȝ.a.tūc ꝙ ꝑciſe eq̄uelo' maiorabunt' pȝ: q2 maioratio lōgitudis.a.tātū faciet ad maioratiōeȝ.a.ſic acq̄ſitio latitudis eo ꝙ nūc ſunt eq̄les ꝛ eq̄uelo' vnifor' maiorabūtur: ꝛ in duplo plus faciet acq̄ſitio lōgitudis.b.ad maiorationē.b.q̄ȝ lōgitudis.a.ad maioratiōeȝ.a.eo ꝙ ille due nūc ſunt eq̄les: ꝛ in duplo veloci^9 ꝯti' maiorabit' lōgitudo.b.q̄ȝ lōgitudo.a.g̊ acq̄ſitio lōgitudis.b.tātū faciet ad ei^9 maiorationeȝ ſic acq̄ſitio lōgitudis ꝛ latitudis.a.faciet ad ei^9 maioratiōeȝ.ꝛ ſi ſic ſeq̄t ꝙ.a.eq̄uelo' maiorabit' cuȝ.b. Et ꝙ.a.veloci^9 maiorabit' q̄ȝ.b.ar' ſic.a.nūc eſt eq̄le.b.ꝛ in fine erit mai^9.b.g̊ ꝛc̄. Añs pȝ.ſ.maior.ꝛ mīor ar' ſic. In fine erit.a.in q̄druplo mai^9 q̄ȝ nūc eſt: q2 tūc q̄libet pars 4ª.a. erit tāta ſic nūc eſt totū.a.q2 eque lōga eque lata cuȝ toto a.in ꝑn^o: vt pȝ.ſi ꝑ^9 diuidat' in medie^tes ſm lōgitu^neȝ ꝛ poſt ſm lati^neȝ: nūc lōgitudo erit bipedalis ꝛ ēt latitudo.g̊ ſeq̄t ꝙ.a.tūc erit in q̄druplo mai^9 q̄ȝ nūc eſt: ꝛ.b.ꝑciſe in triplo mai^9 q̄ȝ nūc eſt: eo ꝙ ſtāte latitudine maiora' ad triplū: vt ꝯſtat: g̊ tūc erit.a.mai^9.b.ꝛ nūc eſt idē.a.eq̄le ipi.b.g̊.a.ve

3ª loci^9 augmētabit' q̄ȝ.b.g̊ ſeq̄t ꝯclo. ¶ Si a nō gradu ſm vtraq̄ȝ dimēſionē incipet ſupficies augeri: infinitum tarde incipet augeri.qđ ſic arg'. Incipiat.a.creſcē a nō g^u tā etiā lōgitudis q̄ȝ latitudis: ꝛ.b.a certo g^u lōgitudis ꝛ a nō g^u latitudinis: tūc in ifinitū veloci^9 incipit.b.augeri q̄ȝ.a.ꝛ.b.ſoluȝ finite velo' acq̄rit de lōgitudine ꝛ eq̄uelo' de latitudine cū.a.g̊ in ifinitū tarde incipit.a.augeri.ꝯña pȝ.ꝛ minor ꝛ maior ſic arguit'. In ifinitū lōgi^9 icipit.b.eē q̄ȝ.a.ꝛ eque latū cum.a.g̊ in ifinitū maior incipit.b.ſupficies eē q̄ȝ.a.ꝛ vtrūq̄ȝ a nō q̄tāto icipit augeri loquēdo de q̄titate ſupficiali: g̊ ifinituȝ veloci^9 incipit.b.maiorari q̄ȝ.a.ſeq̄t g̊ ꝙ.a. ifinitū tarde icipit augeri: ꝛ ſic de q̄cūq̄ȝ alio eſt arguēdū.

g̊ ſeq̄t ꝯclo. Et ꝙ ꝯclo ſit falſa arg' ſic. Sit.a.aliquāta ſupficies que in aliq̄ tpe vnifor' depdat' ad ſubduplū tā in lōgitudine q̄ȝ in latitudine: ꝛ in tpe ſubquadruplo iterū ſm vtraq̄ȝ dimēſionē diminuat' ad ſubduplū: ꝛ ſic in ifi^m: tūc in tpe dato diminuet' ad ſubq̄druplū: q2 in fine cuiuſlibet ptis erit in duplo minus lōgū ꝛ in duplo min^9 latū q̄ȝ ſit in ꝑn^o eiuſdē.g̊ in oī tali pte diminuet' ad ſubq̄druplū.g̊ cuȝ 2^m tps ſit in q̄druplo min^9 ꝑ: ſeq̄t ꝙ in 2° tpe eq̄uelo' diminuet' ſic in ꝑ: ꝛ ſic deinceps.g̊ ſolū finite velo' deſinet diminui. Incipiat g̊ in aliq̄ tpe ꝯſilr augeri ſic nūc deſinit diminui: ꝛ ſeq̄t ꝙ tūc finite velociter ꝛ finite tarde incipit augeri: ꝛ tn̄ a nō g^u vtriuſq̄ȝ dimēſionis: vt argutū eſt de diminutione.ꝛ ita certe velociter incipiet augeri a non g^u vtriuſq̄ȝ dimēſionis tā lōgitudis q̄ȝ lati^nis.g̊ ꝯclo nō eſt vera.

Pro iſtis r̄ndet': ꝛ dī ad ꝑ^m ꝯñeȝ ipam negādo. vñ in caſu poſito.a.eſt plus q̄ȝ dupluȝ ad.b. q2.a.eſt octuplū ad.b.vt ꝓbat' ibi. Et ad arg^m negat' ꝯñia qñ arg' lōgitudo.a.eſt ꝑciſe dupla ad lōgi^neȝ.b.ꝛ latitudo dupla ad lati^nem.b.ꝛ ꝑfunditas dupla ad ꝑfunditatē.g̊ tota q̄titas cōpoſita ex his eſt ꝑciſe dupla ad totū.b.q2 cuȝ lōgitudine.a.ꝯiūgit' maior latitudo q̄ȝ cuȝ lōgitudine.b.ꝛ eq̄lis lōgitudo cū maiori latitudine plus facit ad maiorationē cuiuſlibet ſubti q̄ȝ cū minori.ꝛ ideo lōgitudo.a.pluȝ facit ad magni^tem.a.q̄ȝ lōgitudo.b.ad quātitatē.b.ꝛ ſic nō ſeq̄t' ar^m: q2 añs eſt verū loquēdo de duplicitate lōgitudis in ſe icēſiue ꝛ nō cōparādo eā ad latitudinē eiuſdē: que tñ ꝯiuncta plus facit illā facere ad toti^9 maiorationē q̄ȝ ſi nō ꝯiūgeret' ꝛc̄. ¶ Pro 2° negat' ꝯclo ꝛ admittat' caſus: ꝛ dī ꝙ velocius maiorabit'.a.q̄ȝ.b.ꝛ ꝯcedit' totū vſq̄ȝ ibi/cū dī acq̄ſitio lōgitudis.b.in duplo plus facit ad ei^9 maiorationē q̄ȝ acq̄ſitio lōgitudis.a.negat' H: ꝛ tūc qñ arguit' iſte lōgitudines ſunt eq̄les nūc ꝛ in duplo velocius ꝯti' maiorabit' lōgitudo.b.q̄ȝ lōgitudo.a.g̊ in duplo veloci^9 faciet ꝯtinue. Negat' ꝯñtia: q2 acq̄ſitio lōgitudinis.a.ꝯti' erit re^u latitudinis maior in.a.q̄ȝ acq̄ſitio longitudinis in.b.ꝛ eq̄lis acq̄ſitio lōgitudinis cū latitudine maiori plus faciet ad totius maiorationē q̄ȝ cū latitudine minori.ideo arg^m nō ꝓcedit. ¶ Pro 3° ꝯñe dī ꝙ ꝯcluſio eſt vera: ſi foret finite velox acq̄ſitio latitudinis ꝛ lōgitudinis: ꝛ ſic ꝓcedit arg^m ꝑ^m. Si tn̄ ſit ifinite velox acq̄ſitio vtriuſq̄ȝ dimēſionis: tūc nō eſt ꝯcluſio vera. Et H ꝓbat arg^m 2^m: q2 in caſu poſito finite velociter incipit augeri.ſȝ infinitū velociter incipit acq̄rere tā de lōgitudine: q̄ȝ ēt de latitudine: qđ ſic pȝ.nā in via diminutionis in ꝑ tpe diminuet' lōgitudo ad ſubduplū: ꝛ in 2° tpe ēt diminuet' ad ſubduplū.g̊ in 2° tpe in duplo min^9 ꝑciſe depdet de lōgitudine q̄ȝ in ꝑ: ꝛ 2^m tps eſt in q̄druplo minus: vt ponit caſus.g̊ in duplo velocius depdet' lōgitudo in 2° tpe q̄ȝ in ꝑ: ꝛ in duplo velocius in 3° q̄ȝ in 2°: ꝛ ſic in ifinitū per idē arg^m.g̊ in ifinitū velociter deſinet lōgitudo depdi in ꝑ tpe.ſ.in via diminutiōis. Cōſiliter nūc incipiet acq̄ri ſicut tūc deſinebat depdi.g̊ ifinite velociter incipit lōgitudo acq̄ri.ꝛ ſic arguit' de acq̄ſitiōe latitudis gradus. pȝ ergo reſpōſio pro vtraq̄ȝ parte ꝯñis.

Itē pro iſta mā eſt notādū ꝙ ſi ſint due ſupficies inequae lōge ꝛ eque late que eq̄uelociter ꝯtinue acq̄rāt de latitudine ꝓpor' ſicut vna eſt alia lōgior: ita velocius alia maiorabit'.ex q̄.n.cōtinue erūt eque late ꝓpor' ſicut vna eſt alia lōgior: ita ꝯtinue erit alia maior: ꝛ per ꝯñs in ea ꝓpor^ne velocius maiorabit'. ¶ Silr ſi ſint due ſupficies ineque late ꝛ eque lōge ꝯtinue ſtātib^9 latitudinib^9 per totuȝ que eq̄uelociter acq̄rāt de lōgitudine ꝓpor' ſicut vna eſt alia latior: ita veloci^9 maiorabit'. H ꝓbat': vt prius. ¶ Silr ſi ſint eque longe ſupficies ſiue ſint eque late vel nō: que eq̄uelociter acq̄rāt de latitudine: ille due eq̄uelociter maiorant': q2 erit eq̄lis acq̄ſitio latitudis

Rñſio

Ad 2^m

Ad 3^m

Nota

reſpectu lõgitudinis eq̃lis: vt ſi.a.eẽt eque lõgũ cũ.b.ꝛ in duplo latiꝰ: eo ſequeꝛ ꝙ eſt duplũ ad.b. Maioꝛet ḡ latitudo.b. ad duplũ: ꝛ ſeqꝛ vt pꝫ: ꝙ latitudo duplabiꝛ ꝛ maioꝛeꝛ latitudo.a. eq̃uelociter cũ latitudine.b. ꝛ ſeqꝛ vt pꝫ: ꝙ latitudo.a. maioꝛabiꝛ ad ſexqalterũ tñ. ḡ.a. fiet in ſexqaltero maius q̃ nũc eſt: ꝛ.a. eſt duplũ ad.b. ḡ eq̃uelociꝰ maioꝛabiꝛ.a. cũ.b. ꝛ ſic vl'r verũ eſt. ¶ Silr ſi ſint due ſupficies eque late ſiue eque lõge ſiue nõ: que eq̃uelociꝰ acqrant de lõgitudine: ꝛ iſte ẽt 2ᵉ eq̃uelociꝰ maioꝛanꝛ. hec pbaꝛ vt pꝛima. ¶ Silr ſi ſint due ſupficies ineque longe ſiue eque late ſiue nõ: que eq̃uelociter acqrãt de latitudine ꝓpoꝛᵗ ſicut vna eſt alia lõgioꝛ: ita velociꝰ maioꝛabiꝛ. Sit eiꝫ.a. lõgioꝛ ſuperficies: ꝛ.b. breuioꝛ ſiue eque lata ſiue nõ: ꝛ ſit.c. eque lata cũ.a. ꝛ eque lõga cũ.b. ꝛ acqrãt oĩa eq̃uelociꝰ de latitudine ſtãnbꝰ lõgitudĩbꝰ: tũc ꝓpoꝛᵗ ſicut.a. eſt lõgioꝛ.c. ita velocius maioꝛaꝛ q̃.c. per pᵐ nõbile: ꝛ.c. eq̃uelociter maioꝛaꝛ cũ.b. iuxta 3ᵐ nõbile: ꝛ ꝓpoꝛᵗ ſicut.a. eſt lõgius.c. ita eſt lõgiꝰ.b. ḡ ꝓpoꝛᵗ ſicut.a. eſt lõgius.b. ita velociꝰ maioꝛabiꝛ. ¶ Silr ſi ſint due ſupficies ineque late ſiue eque lõge ſiue nõ: que eq̃uelociter acqrãt de lõgitudine ꝓpoꝛtionabiꝛ ſicut vna illarũ eſt alia latioꝛ: ita velociꝰ alia maioꝛaꝛ. h̃ pꝫ p 2ᵐ ꝛ 4ᵐ nõbile. Sit eiꝫ.a. 1ᵃ ſupficies latioꝛ: ꝛ.b. 2ᵃ minꝰ lata: ꝛ ſit.c. eque lõga cũ.a. ꝛ eque lata cũ.b. que eq̃uelociꝰ acqrãt de latitudine: tũc pꝫ p 2ᵐ ꝙ ſicut.a. ſupficies ꝓpoꝛᵗ eſt latioꝛ.c. ita velocius maioꝛabiꝛ q̃.c. ꝛ per 4ᵐ notabile.b. ꝛ.c. eq̃uelociter maioꝛabunꝛ. ergo ſequiꝛ ↄcluſio ꝛc̃.

¶ Tractatus 7ᵘˢ De reactione.

Qꝫ reactio ſit poſſibilis. **VTrum** reactio ſit poſſibilis. ¶ Arguiꝛ ꝙ ſic: q̃ capiatur.a. ignis purus dn̄ans ſm caliditatẽ ſup.b. ſũme fridũ ꝙ ſit aq̃: ꝛ b. aq̃ ſm humiditatẽ dn̄eꝛ ſup.a. ſm ſiccitatẽ ſuã equaliꝛ: quo poſito ſeqꝛ.a. agẽ in.b. ſm caliditatẽ: ꝛ.b. reagere in.a. ſm humiditatẽ. ideo ↄcediꝛ reactiõez

2 eẽ poſſibilẽ ſm tales q̃litates diuerſas. ¶ Arguiꝛ ẽt ꝙ eſt reactio poſſibilis ſm eaſdẽ qualitates. ꝛ h̃ per experimẽta. ¶ Primo p ferrũ ignitũ aque ſupoſitũ: vbi ferrũ frigeſcit

3 ꝛ aq̃ calefit. ¶ Itẽ pꝫ de aq̃ frida in aquã bullientẽ īfuſa:

4 q2 ceſſat ebullitio ꝛ aq̃ ſupoſita calefit. ¶ Idẽ pꝫ ẽt de manu frida poſita in ſinu calido ꝙ manꝰ calefit ꝛ ſinus frigo

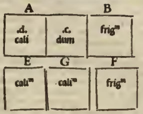
5 fit. ¶ Itẽ ſi duo cultelli ſm acutiẽ ſimul patiant vterq3 in reliquũ agit partem alterius diuidendo: ꝛ alia ſunt experimenta multa pro parte illa.

In oppoſitũ. pmo. **Contra** ꝙ reactio nõ ſit poſſibilis pbo iſtoꝰ ꝙ calidũ calefaciẽt fridũ: ꝛ ſm aliquã eiꝰ ptẽ frigefiat a frido arguiꝛ: q2 ſi ſic tũc agat.a. ignis in.b. fridũ minoris poᵉ q̃.a. ita ꝙ.b. reagat p.c. ptẽ in.a. tũc pbo ꝙ per tᵐ ptẽ

Argᵐ hoc ẽ difficile qð minoꝛes ſcẽ attubare. ſedẽdeꝛ calidiꝰ ꝛ fridiꝰ: q2 ſit gr̃a exẽpli ꝙ.a. ſufficiat agere p.c. in.b. ſi vtrũq3 eſſet ſũme fridũ vel nõ: op3 h̃ ſupponẽ: q2 ex q̃.c. eẽt minoris poᵉ etiã ſi eẽt ſũme fridũ q̃ pars nõ repaſſa.a. que ſit.d. ꝛ ſeqꝛ ꝙ ſi.c. eẽt ſũme fridũ ſicut eſt.b. ꝙ d. p.c. ageret: ſ3 nũc.c. ſm oẽz pũctũ minꝰ reſiſtit q̃ tũc reſiſteret: ꝛ.a. nũc ad oẽz eiꝰ pũctũ hẽbit illũm agẽdi mediãte quo poſſet fridiitatẽ remitteꝛ in.c. qð nõ hẽet.c. ſic exiſte ſũme frido. igiꝛ a multo fortioꝛi per.c.d. nũc aget caliditatẽ: ꝛ

Cõfirᵉ p b. fridiitatẽ. igiꝛ ſeqꝛ ↄcl'o. ¶ Itẽ habeat.a. ad.b. ꝓportionẽ q̃druplã: ꝛ ſeqꝛ ꝙ.b. nõ reaget per 4ᵐ.a. q2.b. ad 4ᵐ.a. nõ h3 ꝓportiõez maioris inequalitatis: ꝛ tũc ſicut pars nõ repaſſa eſt maioris poᵉ q̃ ſint.b. ꝛ.c. igiꝛ.a. ↄtrᵉ ſm.d. ptez hẽbit ꝓportionẽ maioris ineq̃litatis ad.b.c. ꝛ.b.c. cõtinue erũt ſibi ↄtrã: ꝛ meliꝰ ↄtinue applicabiꝛ.d. ipſi.c. q̃ ipſi.b. ſequiꝛ igitur ꝙ ſi.d. aget in.b. ꝙ a multo fortioꝛi aget in.c. ¶ Silr ſi.c. eẽt ſũme frigidũ.d. ageret per.c.b. ipſa ſibi aſſimilãdo: igiꝛ a multo fortioꝛi nũc. igiꝛ ꝛc̃. ¶ Itẽ ſi.c. eſſet ſũme fridũ cõpoſitũ cum.d. ipm.d. ageret per.c. inductiꝰ in ipm caliditatẽ: q2 foret ſufficiẽs ↄtrietas cũ diſſo ꝛ alijs paribus: igiꝛ cõtinuata actione ipſius.a. per.c. ꝛ incepta per.b. vel in.b. nõ ageret.b. in.c. eo ꝙ.a. ageret per.c. q2 aliter nõ ageret in.b. niſi per.c. eo ꝙ.c. itercipiꝛ inter.b. ꝛ.d. Cũ igiꝛ ad oẽm pũctũ.c. nũc ↄtinue erit minoꝛ reſiſtẽtia reſpectu b. q2 caliditas minoꝛ q̃ foret ſi.c. in pnᵒ foret ſũme calidũ ſicut ponit in caſu pꝛ: ꝛ.b. ↄtinue erit maioris poᵉ q̃ tũc eẽt reſpectu.c. ꝛ applicatio erit eque bona: igitur ſi.b. nũc nõ aget in.c. nec a multo fortioꝛi in pꝛ caſu egit in.c. ¶ Itẽ ſic q̃cũq3 inſtãti dato ſi tũc.c. diſcõtinuareꝛ a.d. ꝛ cõtinuareꝛ cum.b.a. ageret per.b. mediãte.c. q2 aliter nõ ageret in.b. ꝛ q2.c. tũc ↄtrareꝛ ſm talem applicatiõez ꝛ foret ſufficiẽs diſſiuꝫ: ſ3 nũc in iſto inſtãti oĩa erũt paria: q2 tũc eẽnt pꝛeter diſcõtinuatiõez ꝛ ↄtinuatiõez que peioꝛez faciũt applicationem reᵘ.d. ꝛ melioꝛẽ reᵘ.b. ꝛ maioꝛẽ reᵗⁱᵒⁿᵉ reᵘ.d. igiꝛ cũ.d. tũc ageret in.c. ꝛ.b. nõ per.c. ſequiꝛ nũc.a. agere per.b. mediãte.c. vel ad minus in.c. ꝛ.b. nõ per.c. vel ſeqꝛ cõcluſio pꝛacta. ſ. per aliquã ptez ſimul caliditatẽ ꝛ fridiitatẽ intẽdi. ¶ Ideo forte di ꝙ nõ eſt appetitꝰ.d. cõtinue ad agẽdũ in.c. q2 in pnᵒ ſunt eque icẽſa. ¶ Lꝫ tñ h̃ ponaꝛ nõ ſoluit argᵐ: q2 equalẽ appetitũ h3.d. quo ad omne ↄtrariũ aſſimilãdũ: ſed.c. ↄtinue poſt h̃ erit ↄtrariũ ipſi.d. igiꝛ poſt hoc erit appetitꝰ ſufficiẽs: ꝛ ſi diſcõtinuareꝛ eſſet ↄtrietas ſufficiẽs ↄtinue. igiꝛ cũ h̃ eẽt pp defectũ latitudinis ad pũcta itrinſeca ꝛ nũc eſt ↄſilis defectꝰ ſicut tũc: igiꝛ ↄtrietas equalis: ꝛ per ↄñs appetitꝰ eq̃lis. ¶ Itẽ remoto.b. ab ipſo.c.d. appeteret agere in.c. ſ3 nõ videꝛ rõnale ꝙ pp remotionez b. varieꝛ appetitꝰ.d. quo ad agẽdũ in aliud. igiꝛ.b. applicato.c. habet.d. appetitũ ad aſſimilãdũ.c. ꝛ nihil erit ipediẽs niſi.b. vel.c. que ſimul iuncta ↄſtituũt minoꝛẽ reſiſtẽtiaꝫ q̃ eſt poᵉ.d. igiꝛ.d. aget in.c. ꝛ per ↄñs riſio eſt nulla. ¶ Itẽ remoueaꝛ.b. tũc vel aget.d. in.c. vel nõ. ſi nõ: agitur ante ſi ſtetiſſent.b.d. nunq̃ aſſimilaſſet.c. ꝛ per ↄñs nec.b. cũ.c. itercipiꝛ iter.b. ꝛ.d. Si agit: igiꝛ h3 appetitũ vel nõ. ſi ſic: h̃ eſt ex eo qð eſt ſibi ↄtrariũ: ſ3.b. approximato manet ↄtrietas eq̃lis. igiꝛ approximato.b.d. appeteret agere in.c. vel ſi nõ: h̃ eſt pp.b. ſ3 cum.b. ſit minoris poᵉ q̃.d. ſequiꝛ ꝙ minoꝛ poᵃ impediet maioꝛẽ taꝫ ab appetitu q̃ ab actione. igiꝛ ſeqꝛ motũ a ꝓportione minoris ineq̃litatis ꝓuenire. ¶ Itẽ ſi in pꝛ caſu.d. nõ appeteret agere in.c. hoc eẽt: q2 actio eius pꝛincipalis itẽdit in.b. cũ igiꝛ quouſq3.b. erit aſſimilatũ.a. actio.a. inequalis vel plus tẽdit in.b. ſicut in pnᵒ: igiꝛ nunq̃.d. appeteret agere in.c. ¶ Itẽ ſiue h̃ agat aliqua actione ſiue nõ: dum tñ appetit in pnᵒ ſemp ſuus appetitꝰ manet eq̃lis: vt q̃libet experiꝛ de ſeipſo. igiꝛ l3 aliud agat p qð ipm d3 agere: vel in qð ipm d3 agere remoto ꝓhibẽte appetitꝰ quo ad agẽdũ per actionem alterius nõ auferꝛ. ¶ Itẽ ex 1ᵃ riſione ſeqꝛ ꝙ vbicũq3 eſt actio ꝛ etiã reactio fortioris indebiliꝰ remitteꝛ actio maioris in minus anteq̃ aſſilatio erit facta per magnã latitudinẽ. ꝛ hoc ſubito cũ alijs paribus. ¶ Itẽ ſeqꝛ ꝙ eadẽ pars ſimul ipediet ꝛ iuuabit reᵘ eiuſdẽ agẽtis ꝛ eiuſdẽ actionis. ¶ Itẽ ſeqꝛ ꝙ ſubito deꝑdeꝛ magna latitudo motꝰ ſine acqſitione reſiſtẽtie vel remiſſione poᵉ ſubita. ¶ Itẽ taꝫ motꝰ agẽtis q̃ motus reagẽtis ſimul vel ſine tpe medio per magnã latitudinẽ ſubito remitteꝛ: q2 vt dicit hec poſitio reactio ceſſat cũ agẽs ꝛ patiẽs ſm extrema approximata ſunt ſilia ob defectũ ↄtrietatis. tunc capiaꝛ illud inſtãs in quo ceſſabit reactio iter.b. ꝛ.a. ꝛ arguiꝛ ſic. ante illud inſtãs.c. pars nõ reſiſtet ipſi.d. q2 nunq̃ reſiſtet aliquid alicui agẽti tali ꝙ nec agit in ipm nec nitiꝛ agere: ſ3 per põnez.d. ante illud iſtãs nõ aget in.c. nec nitiꝛ agere in.c. igiꝛ ante illud inſtãs.c. nõ reſiſtet.d. ſ3 in iſto inſtãti vel immediate poſt tᵐ inſtãs.c. ſub certo gᵘ reſiſtit ipſi.d. eo ꝙ tũc aget.d. in.c. ꝛ.b. tũc in nulla ꝓpoꝛᵗⁱᵉ minus reſiſtet q̃ prius. ↄtinue.n. reſiſtet ſm vltᵐ ſui poſſe: eo ꝙ eſt agẽs nãle: nec etiaꝫ.a. in aliq̃ ꝓpoꝛᵉ tũc erit

maioris po^{e} ꝙ̄ p̄us.igr̄ tunc aget vel incipit agere in.b.in magna ꝓpor^{e} tardi^{9} ꝙ̄ p̄us:eo ꝙ tūc incipiet agere in.c.vt ponit illa poſitio.igr̄ ſeqꝫ ꝯclō ꝛc̄.¶ 2ª ꝯclō ēt ſeqꝫ:q2.c. pars tūc īpediet re^{m} actionis.d.in.b.q2 tardius aget ꝙ̄ ſi.c. tūc eēt ablatū.igr̄.c.tūc reſiſtet ipi.d.Et ꝙ iuuabit.d.re^{m} actionis in.b.pꝫ:qa ꝯti^{e} caliditas erit maioꝛ frig^{te}:ꝛ ēt ſm extre^{m} approximatū ꝯti^{e} poſt illud inſtās itēſius erit ꝙ̄.b. ſm extre^{m} ſibi approximatū:eo ꝙ tardi^{9} aget.d.in remotū.c.ꝙ̄ in ꝓpinquū ei^{9}.igr̄ ꝯti^{e} iuuet.c.agere in.b.ꝛ ꝑ ꝯn̄s ꝯti^{e} iuuabit.a.ad agēdū in.b.igr̄ ſeqꝫ ꝯclō.¶ Itē 3^{a} ꝯclō ſeqꝫ:eo ꝙ tūc nō reaget.b.in.c.ꝛ ꝯti^{e} ante reaget cerꝛ tēꝯclo citer ꝛ ex certa ꝓpor^{e}:qa aliter ceſſaret reactio ꝑꝑ defectū ꝓpor^{nis} qđ negat illa poſitio.igr̄ ſeqꝫ ꝯclō.¶ 4^{a} ex p̄^{a} et
Alr ad 3^{a} ſeqꝫ manifeſte.¶ Aliter argr̄ in p̄ caſu ꝙ.b.non reaget
p̄n^{le} in.a.per.c.ptē:qa.d.ſufficit aſſilare ſibi.c.ꝛ facere ſūmū.c. ipſo.b.ſibi applicato:ꝛ.d.c.extitib^{9} ꝯtrijs:ꝛ equefacile vel facili^{9} eſt ꝯſuare ꝙ̄ gn̄are.igr̄.d.ſufficit cōſeruare.c.ne.b. agat ꝑ ipſaꝫ ptē.a.maioꝛ pꝫ:eo ꝙ ſufficiēter dn̄at.d.ſupra b.c.¶ Itē ſic ſi.c.pro aliq̄ iſtāti eēt ſeparatū ꝛ equalr̄ poſitū iter.b.d.ꝛ ſufficiēter approximatū illi.d.aſſimularet aliquā ptē illi^{9}:ꝛ ageret in aliquā ptē ei^{9} ante qđcūqꝫ iſtās datū:ꝛ in caſu dato.c.erit equalr̄ ꝯtriū.d.ſic tūc foret:ꝛ approximatio ita bona vel melioꝛ.igr̄ ꝛc̄. ¶ Pro iſtis cōiter dr̄ ꝙ nūc nō eſt.d.ita ſufficiēs ad aſſilare.c.ſicſi eſſent ſeparata abinuicē:qa tūc.d.nō ageret in.c.niſi ex B ꝙ foret ſeparata:ꝛ ſufficiēter ſibi ꝯtria quo ad actionē vl̄ ſuſceptionē actionis.¶ Cōtra.ex B ſequiꝛ ꝯtinuationē īpedire actionē ibidē:ꝛ ſic ſeqꝫ.d.nunqꝫ aſſilare ſibi.c.qa cōtinue
Riſſio manebūt ꝯtinua adinuicē ſicut nūc ſunt.¶ Pro iſto dr̄ ꝙ ꝯtinuatio illā actionē nō impedit:ſꝫ actio reagētis in illaꝫ
Cōtra ptē.¶ Cōtra.c.ſeparato pro aliq̄ inſtāti ab ipſo.d.ſi aliqs poneret.b.agere p.c.ſic p̄us:ꝛ.d.nō vlluꝫ foret arg^{m} cōtra euꝫ niſi B ꝙ.d.foret maioris po^{e} ꝙ̄.b.ꝛ ſufficiēter approximatū illi.igr̄ a maiori.d.ageret in.c.ꝙ̄.b.niſi capiatur in arg^{o} ꝙ tūc.c.erit etiā ſeparatū a.d.ꝙ ſi capiaꝛ imediate:ſequiꝛ illā ꝯtinuationē actionē īpedire: qa aliter nō faceret ad arg^{m}. Sꝫ idē eſt arg^{m} cum eiſdē aſſūtibus veris ꝙ pōt fieri ꝯtinuato.c.cum.d.igr̄ in p̄ caſu ꝯcludiꝛ.d.agere in.c.vel cōtinuationeꝫ illā actionē īpedire:qđ negat riſſio. ¶ Itē ſit aliqđ inſtās ꝛ ponaꝛ.c.in illo iſtāti ſeparari a.d. ꝛ pono obſtaculū inter.d.c.ꝓpter qđ.d.nō agat in.c.ꝛ ſequitur.b.agere in.c.qa nō eſt aliqđ īpediens eius actionē.remoueaꝛ igr̄ iſtud obſtaculuꝫ a.d.ꝛ ſit illud inſtās in quo obſtaculū erit remotū:tūc vel.d.agit in.c.vel nō.ſi nō cōtra eſt maioris potētie ꝙ̄.b.ꝛ ad oēꝫ pūctū.c.habet maioreꝫ ꝓportionē ꝙ̄.b.igr̄ agit in.c.eo ꝙ eſt ꝯtrietas ſufficiēs. Si agit ꝯtra.d.c.extitibus ꝯtinuis in caſu poſito.d.nō ageret nec incipet agere in.c.cuius cā foret actio.b.per.c.cum igr̄ nūc eſt actio.b.per.c.ſequiꝛ ꝙ.d.nūc nō agit in.c.nec incipit.ꝯn̄ia tenet:ex eo ꝙ poniꝛ cōtinuationē nō impedire:ſed ſoluꝫ actionē.b.in.c.ne.d.agat in.c.Si dicaꝛ ꝙ lꝫ b.aget in hoc iſtāti.ſ.in inſtāti in quo remoueꝛ obſtaculū: ꝛ ꝯtinue ante agebat per.c.nūc tn̄ deſinit agere p.c.ꝛ ideo eius actio nō impedit actionē.¶ Quæriꝛ igr̄ cā quare in caſu p̄mo ꝗcūqꝫ inſtāti dato.b.nō deſinit agere per.c.ſicut ſi ſepararenꝛ:ꝛ nō erit cā ponēda niſi ponatur cōtinuatio que nō videꝛ cā ſufficiēs.¶ Itē ſit.e.ſūme calidū equalis po^{e} cum.d.ꝛ.f.ſūme frigidū eq̄lis potētie cuꝫ.b.ꝛ.g.ſūme calidū equale cuꝫ.c.poſitū equalr̄ iter.e.ꝛ.f.ꝛ ſit approximatio ꝯſilis.f.ad.g.ſicut.b.ad.c.tunc vel aget.f.per.g.vel nō.ſi nō ꝯtra equebene approximaꝛ.f.ad.g.ſicut.b.ad.c. ꝛ nō eſt aliqđ īpediēs plus reſpectu ſue actionis ꝙ̄ reſpectu actionis.b.in.c.imo plus qa omne agēs nāle plus nititur nāliter cōſeruare pteꝫ ſui ſubti ſub gradu ſuo ꝙ̄ aliqđ aliud extrinſecū ſub eodē gradu, Cū igr̄ iuxta illā reſpōſionē.d.nō impediet actionē.b.in.c.igr̄ nec ſilis potentia cuꝫ.d.impediet actionē.f.per.g.ꝛ per ꝯn̄s ſequiꝛ.f.incipe agere per.g.vſquequo habeat frigiditatē.igitur ꝛc̄.



¶ Cōtra arguiꝛ ꝙ nō:qa.g.incipit eē ꝯtriuꝫ ipſi.e.ꝛ eſt in ſufficiēti applicatione:ꝛ ſeparatū a.g.igitur ſi.f.imediate poſt B aget per.g.a multo fortiori.e.incipit agere in.g.igitur in.g.ſimul incipit intēdi caliditas ꝛ friditas ad eūdeꝫ pūctuꝫ.¶ Itē ex quo.e.ſic incipit agere in.g.ꝛ.d.nō impediet aliq̄ modo aliter ꝙ̄.e.eo ꝙ cōtinuatio nō īpediet ꝛc̄. ꝛ.d.approximaꝛ equebene vel meli^{9} ad.c.ſicut.e.ad.g.igr̄ d.incipit agere in.c.igitur.b.nunqꝫ aget per.c.ꝛ ita arguiꝛ de omni pte.a.igr̄.b.nō reaget in.a.Nā ſi capiaꝛ applicatio illoꝝ adinuicē vel ſilitudo ſm extrema ad.c.approximata:vel ita de alijs que p̄nt īpedire actionē.d.in.c.i^{a} oia inuenienꝛ cōſilr̄ inter.e.ꝛ.g.¶ Iteꝫ in caſu p̄iti arguiꝛ ꝙ ſi.f.incipiat agere per.g.ꝙ etiaꝫ.e.incipiat agere per.g.qa ad oēm pūctū.g.ſe hēbit.e.cōtinue in maiori ꝓportiōe ꝙ̄ f.qa ad oēm pūctum hēbit iuuamētū meli^{9}:ꝛ fortius quo ad actionē caliditatis ꝛ remiſſionē friditatis ꝙ̄.f.ad actionē ꝯtriā.igr̄ ſi.f.incipit agere vel vnqꝫ aget per.g.a multo maiori.e.incipit agere per.g.igr̄ ſequiꝛ p̄^{a} ꝯcluſio.ſ.ꝙ per idē ſimul intēdeꝛ caliditas ꝛ frigiditas.Et ſi quæraꝛ in caſu p̄mo precedēte qn̄ poniꝛ ꝙ.c.ſepareꝛ a.d.cuꝫ obſtaculo ꝛc̄.tūc cā quare.b.deſinit reagere per.c.eſt:qa.d.incipit agere in.c.Et cā quare.d.incipit agere in.c.eſt:q2.d.eſt maioris po^{e} ꝙ̄.c.Et qa.b.deſinit reagere in.c.igr̄ cā quare.b. deſinit reagere in.c.eſt:qa ipm̄ deſinit reagere.Uel aliter nō videꝛ cā quare.d.c.extitib^{9} cōtinuis.d.nō incipit agere in.c.ꝛ.b.deſinet ꝛc̄. ¶ Arguitur tūc ꝙ.b.nō deſinet reagere in.c.qa ſi ſic hoc erit vt ponit cōis poſitio qn̄ ſm extrema approximata eēnt.b.c.ſilia.ſed arguiꝛ ꝙ nō:q2 vel hoc erit ꝓpter defectū ꝓportionis:vel ꝓpter defectū ꝯtrietatis.Nō p̄mo modo:qa tūc.b.ad aliquā ptē.c.ſe habebit in ꝓportione maioris ineq̄litatis. Si 2° modo.cōtra:lꝫ ad pūcta tūc extrema imediata erūt.b.c.ſilia:tn̄ ad oēm pūctuꝫ itrinſecū vnius.ſ.b.erit frigiditas certa ſic.ſ.ꝙ ſupra aliquā pteꝫ vltra.c.ſibi imediatā dn̄abiꝛ:in aliqua pte.c. igr̄ ſufficit agere friditatē inte^{am}:lꝫ tn̄ ad pūctuꝫ ſibi imediatuꝫ nō ſufficiat.¶ Pro quo dr̄ ꝙ ſm illā approximationeꝫ nō agit:eo ꝙ ſunt ſilia ſm extrema approximata. ¶ Cōtra.ex B ſequiꝛ pteꝫ nō repaſſam nunqꝫ aſſimilare nec agere in ptē repaſſam:qa ſm extrema approximata erūt ſilia:ꝛ per ꝯn̄s iuxta illā poſitionē vnū ſūmū nō ſufficeret aliud aſſilare:qa ſm extrema approximata nunqꝫ eēnt actiones iter illa ꝛ vtrinſqꝫ extremū maneret remiſſum:qa nō intēdereꝛ per ptē repaſſam . ¶ Itē ſic capiaꝛ illud inſtās in quo.b.c.erūt ſilia:tūc ſi.b.eēt pro iſto inſtāti maioris potētie ꝙ̄ tūc erit.c.ſ.maioris ꝗtitatis:tūc oēm gradū frigiditatis ab eo actū per maiorē diſtātiā ſufficeret agere:ꝛ per ꝯn̄s ſi vnū pro tūc ſit ꝯſilē.b.qualitatiue ꝛ maioris quātitatis ꝙ̄.b.vltra pūctū ſibi imediatū.c.ꝛ ad diſtātiā vlteriorē frigiditatē ageret nō obſtāte ſilitudine inter extrema.¶ Pro quo poſſet dici ꝙ ex argumēto nō

ſequiť: q̃ꝛ pars nõ repaſſa aliq̃d ageret in ptẽ repaſſam: q̃a tũc totũ.d.erit vniformẽ: ꝛ ſic nõ erit.b.imo multũ difformẽ. Sꝫ illud nihil facit. Signo.n.aliq̃d repaſſuꝫ cuius magna pars ſit vniformis ꝛ imediata ei⁹ pars difformis terminata ad illũ graduꝫ.c.ita modice tñ po ꝙ tota pars vniformis illã ſibi ſufficiat aſſiĩare: vt ponit rñſio eẽ poſſibile: tũc illa pars vniformis aſſiĩabit ſibi aliã ptẽ eã ad vniformitatẽ reducẽdo. igiť a multo maiori ſi ad oẽꝫ pũctuꝫ illius ptis vniformis eẽt quãtitas itẽſioꝛ ſiue vniformis ſiue difformis: duꝫ tñ nõ ad extremũ ſequiť illã ptẽꝫ in ptẽ remotã ↄtinue agere: ꝛ tũc vtraq̧ pars foret difformis ſm extrema approximata ſiĩia. igiť reſponſio nulla. ¶ Aliter arguiť ꝙ iter eq̃lia nõ ceſſat reactio: lꝫ per poſitionẽ dicať ꝙ ſic q̃ñ.ſ.medietas latitudinis erit inducta. ꝛ hoc nõ eſt vt cõiter dĩ: niſi ꝑꝑ defectũ ↄtrietatis ſm extrema approximata. Agat igiť.a.in.b.tũc: ex q̃ tunc erũt ſiĩia ſm extrema approximata. applicenť ergo ſm alia pũcta diſſiĩia: ꝛ ſequiť ꝙ vlterius manebit reactio iter illa. cum igiť ifinite erũt ptes iſtoꝝ diſſiĩes que in diuerſis tpibus pñt adinuicẽ applicari ꝛ ad aſſiĩationẽ oĩum ꝑuũ tps magnũ reqriť: igiť per ifinitũ tps põt hꝯ actio remanere vel durare: ꝛ ad certa pũcta ↄtĩ certe velociter maneret actio. igiť ifinitã latitudinẽ põt vnũ in reliquũ inducere: vel ſequiť ꝙ vnũ aliud ad ſũmũ reduceret. ¶ Itẽ ponať ꝙ cũ erũt ſiĩia ſm extrema approximata ꝙ vnũ eoꝝ ꝓgrediatur localr̃ ſic ꝙ extremũ motũ erit ſemꝑ ad punctũ diſſimilẽ: vt eſt ſatis poſſibile: ꝛ inde nõ recedat gratia exẽpli anteq̃ ſm talia pũcta erũt ſiĩia: tũc ex q̃ extremũ.b.obuiabit caliditati itẽſiori ꝛ itẽſiori: ſequiť ꝙ ſm illud extremũ fiet.b.ſũmuꝫ ꝛ ſupra mediũ: ꝛ ſic nulla erit maxima latitudo que in hꝯ reactione inter eq̃lia poterit induci: imo ſtat a.in vno extremo hr̃e caliditatẽ ſũmã: ꝛ in alio frigiditatẽ ſũmã: ꝛ ſic de aliis. Uel ꝙ aliq̃ñ ceſſabit reactio ꝓpter defectuꝫ ꝓportionis ꝛ nõ ↄtrietatis. q̃d negať cõiter: imo q̃ſi ab oĩb⁹. ¶ Itẽꝫ nõ ſolui argͫ q̃a ad pũcta itrinſeca poſſet hꝯ intẽſio eẽ: lꝫ nõ ad extrema approximata.

De reſiſtẽtia accidẽtali in motu alteratiõis

Pro iſta mã ponať vna poſitio ꝙ nulla eſt reſiſtẽtia accidẽtalis in motu alteratiõis: immo pars in qua eſt actio ſolũ reſiſtit: ꝛ ſic pars nõ repaſſa non nitiť aliã ptẽ ↄſeruare. Et ex iſto ſeq̃ť ꝛ ↄcediť ꝙ vbicũq̧ ſũmuꝫ incipit agere in ſũmũ ifinite velociter incipit agere: nõ tñ ita ↄtinue faciet: q̃a ↄtinue aget per ptẽ maiorẽ ꝛ maiorẽ: ꝛ ſic magna pars pro q̃cũq̧ inſtãti reſiſtit. ¶ Arguiť tñ ꝙ illa poſitio ſit falſa. nã ex illa ſequiť ꝙ aliq̃d ifinite velociter agit per certũ tps. applicet enim.a.ignis ſũmus ad.b.aquã ſũmã. vnde q̃ꝛ per ifinitã modicã ptẽ incipit agere: ponať ꝙ ſemꝑ corrũpať pars per quã erit actio ſic ꝙ q̃ñcũq̧ actio deueniet ad aliquẽ punctuꝫ.b.diuidať iſta pars a pte reſidua vel corrũpať ꝛc̃. ꝛ moueať agẽs localiter: ſic ꝙ ſemꝑ approximeť ad ptẽ ſũmã paſſi: tunc ſequiť ꝙ ifinite velociter ↄtinue aget: eo ꝙ ↄtinue erit ſũmũ vtrũq̧ illoꝝ. ¶ Itẽ ſi ſolũ pars per quã eſt actio reſiſtit agẽti: ſequiť ꝙ ſubito gradũ ſũmuꝫ vel aliquẽ aliũ certuꝫ induceret. ꝛ nõ eſt maior ratio de vno q̃ de alio: igitur oẽm ſubito induceret: q̃a capto vno ſũmo frido ꝙ in aliq̃ tpe aſſiĩareť ab.a. aliud hñs minorẽ quãtitatẽ in duplo citius aſſiĩať ab.a. ꝛ ſic in ifinitũ: igiť ifinitũ cito aſſiĩaretur aliq̃d ſumme frigidũ ab.a. ſi per ſe exiſteret ꝑꝑ paruitatẽ q̃ntitatis ꝛ reſiſtẽtie ſemꝑ: ſꝫ per infinitã modicã ptẽ incipit agere nõ magis reſiſtẽtẽ q̃ ſi per ſe exiſteret. duꝫ igiť ſubito aſſiĩaret aliq̃d ſũme frigidũ: ſeq̃ť ꝙ tũc incipit aſſimilare aliquã ptẽ.b. ¶ Argͫ ↄfirmať per hoc ſi forẽt infinita: vnũ alicui⁹ quãtitatis: ꝛ aliud minoris: ita ꝙ in ſubduplo tpe aſſiĩarenť: ꝛ ſic deinceps in ifinito modico tpe aſſiĩareť aliq̃d iſtoꝝ. Sed nũc ↄſilr̃ eſt de ptib⁹.b. q̃a in aliq̃ tpe aſſiĩareť vna: ꝛ alia in ſubduplo tpe: ꝛ ſic in infinitũ ſi per ſe eẽnt: ꝛ nũc nõ reſiſtit aliq̃ pars plus q̃ tũc: igiť incipit.a.gradũ ſũmuꝫ induceť in aliquã ptẽ.b. q̃d fuit ꝓbãdũ. Uel aliter ſequiť ꝙ ipediretť ꝓpter ↄtinuationẽ: ꝛ ſic alie ptes reſiſterẽt: q̃d negat poſitio. ¶ Itẽ.a.aliqualr̃ velociter agẽdo aliquã latitudinẽ in aliq̃ tpe induceret, ꝛ tãtã in tpe ſubduplo du⁹ velocitate mouẽdo: ꝛ ſic in ifinitũ. igiť ſi in ifinitũ velociter incipit agere: ifinitã latitudinẽ incipit ſubito induceť ꝛc̃. ¶ Itẽ arguiť ꝙ.a.incipit agere per totũ b. q̃ꝛ ad oẽm pũctuꝫ ſufficiẽs eſt agere: ꝛ ad nullũ punctũ eſt impediͫ actionis: q̃a ad illũ nõ ageret cum nulla pars tribuat reſiſtẽtiã vni pũcto plus q̃ alteri: igiť ad illud incipit agere. ↄñtia pꝫ de luminoſo agẽte per mediũ vniforme. ¶ Itẽ ex iª põne ſequiť omne elĩtũ in ſua ſphera eẽ remiſſum. Nã applicať ignis ↄtinue ad aliquã ptẽ aeris: qui ignis eſt certe po. ꝛ ſi aer ſit vniformis ꝛ ſũmus ifinite modice pars ſibi reſiſtit: ꝛ ſuꝑ certã ptẽ illius dñareť ſi eẽt per ſe: ſꝫ nũc nulla pars aeris hꝫ reſiſtẽtiã ex alia parte: igiť ille ignis incipit agere in aliquã partẽ aeris ſi nunc ſit ſũmus. ꝛ ↄſilr̃ ante ħ agebat ↄtinue: igiť cuꝫ cõtinua ſit actio iter illa elĩta: ſequiť vtrũq̧ illoꝝ.ſ.tã aerem q̃ ignẽꝫ eẽ remiſſum. ↄſilr̃ arguiť de aliis aqua ꝛ terra. ¶ Itẽ arguiť ꝙ in alteratiõe ſit reſiſtẽtia accñtalis. ſi.n.nulla pars diſtãs a parte in qua eſt actio reſiſtat agẽti: igiť nulla alia pars diſtãs a paſſo iuuat aliã ad agẽdũ. ↄñtia tenet per locuꝫ a ſiĩi. ꝛ ſi ſic ifinite modica pars agit infinite modice po exiſtẽs. ↄñtia arguiť. diuidať.n.in ptes ꝓportionales verſus paſſum. ꝛ ſequiť ꝙ pª pars ꝓportionalis nõ iuuat ad agẽduꝫ: q̃a diſtat a paſſo. nec 2ª per idẽ: ꝛ ſic in ifinitũ: igiť nulla eſt pars ꝓportionalis hui⁹: que ſm illam diuiſionẽ aget. ꝛ ſi ſic cuꝫ ↄtinue poſt ħ erit actio per aliquã ptẽ aliqualr̃ reſiſtẽtẽ. pꝫ ꝙ ↄtinue erit actio a ꝓportione maioris ineq̃litatis. ↄñs eſt falſum: igiť ꝛc̃. ¶ Itẽ ſequiť ꝙ nullius difficultatis eẽt agere in paſſum aliq̃d ſũmuꝫ cum ifinite modice reſiſtet omne tale. ¶ Itẽ ſequiť ꝙ oĩa eẽnt eq̃lis po quo ad inceptionẽ actionis: q̃a oẽ ſũmũ in aliud ſũmũ poſſet incipe actionẽ: igiť ꝛ illã actionẽ poſſet ↄtinuare.

¶ Penes q̃d attẽdiť po rei ꝛ qualr̃ vna pars iuuat aliã.

Pro iſta igiť mã de reactione eſt notãduꝫ penes q̃d po rei attẽdiť: ꝛ qualr̃ vna pars iuuat aliã ad agẽduꝫ: ꝛ qualr̃ ad reſiſtẽdum. ¶ Pro cui⁹ itellectu eſt ſciẽdũ ꝙ ſicut in quãtitate pedali terre ſũme plus eſt de mã q̃ in pedali ignis ſũmi: vt dictum eſt: vbi tãgebať de raritate: ſic in ſubto aliq̃ vniformi in duplo plus eſt de mã que eſt for in toto q̃ in me nõ ſolũ acci ꝫ plus itẽſiue: ita ꝙ intẽſior ſit caliditas in toto q̃ in eius medie: nec extẽſiue ſolũ: ita ꝙ extẽdať in ſubto duplo: q̃ꝛ capiať ignis pedalis q̃ntitatis qui cõdẽſeť ad ſubduplũ per imaginatiõeꝫ ſine deꝑditione for. ꝛ ſeq̃ť ꝙ in fine erit ſemipedalis hñs eãdeꝫ formaꝫ quã nũc hꝫ totũ: ꝛ per ↄñs in duplo plus tũc hẽbit de for quã nũc habet vnũ eius ſemipedale: ꝛ tñ illa for tũc nõ erit intẽſior q̃ nũc eſt for in illa medietate nec maior extẽſiue: vt notuꝫ eſt. Et ideo maior multitudo eſt de for in toto q̃ in medi vbi totum eſt vnifor: ꝛ ſic penes multitudinẽ vel penes paucitatẽ dicte forme attẽdiť toti⁹ potentia. Et ħ ſiue ſit in quãtitate maiori ſiue minori: imo ſi per imaginationeꝫ illa for: que nũc eſt pedalis extẽdereť vel foret in indiuiſibili: po illius indiuiſibilis tũc eẽt tãta ſicut nũc eſt illi⁹ pedalis. ¶ Q̃d ſic arguiť. a mã nulla habeť po actiua: q̃a iª eſt paſſiua ꝛ nõ actiua. nec a q̃ntitate: q̃ꝛ quãtitas de ſe nõ eſt actiua: eo ꝙ oĩs actiuitas ꝓuenit a for aliq̃ actiua: ꝛ nulla eadẽ for eſt actiua ↄtrarioꝝ ſaltẽ loquẽdo de for nõ cognitiua. ↄñtia arguiť ſic. ſi quãtitas ſit actiua: deť igiť ignis pedalis quãtitatis. vel igiť illius ignis q̃ntitas

Nota q̃ſe ſit itellꝰ q̃ñ dĩ a.aliquid hẽre plus de forma.

Penes multitudinẽ for attẽdiť potẽtia rei.

ignis q̄titas eſt actiua cōmūis actionis ſicut ignis vel eius for° vel eſt actiua actiōis ꝯ̄rie: vel vtriuſq;: vel oīno actionis diſpare. Si q̄titas ſit actionis ꝯſil'is ſicut eſt actio forme ignis: igiť ſi ex illo igne gn̄ieť terra adhuc remaneret illa actiuitas nālis illius q̄titatis qñ foret ſub for° terre: ⁊ ꝓus habuit nālē actiuitatē forme ignis: igiť tūc hēbit de ſe eādē actionē: ⁊ per ꝯñs tūc ip̄ediet terrā ſeu eius forᵃᵐ a gn̄atione terre. reſiſtet eīꝫ in tali gn̄atione: q2 nitiť gn̄are ignē: ⁊ per ꝯñs terra nō erit maioris po° actiue ꝓpter illā q̄titatē: ſꝫ potius minoris. Idē eſt argᵐ ſi ſit actiua forme ꝯ̄rie ad actionē forme ignis: ſi vtriuſq; erit actiua. ſ. illarū actionū ꝯ̄riaꝝ: igiť ad neutrius gn̄ationē iuuabit: vel qua rōne ad vni° gn̄ationē iuuabit eadē rōne iuuabit ad aliā actionē ſimul: igiť reⁿ eiuſdē iuuabit ⁊ ip̄ediet qḋ eſt irrationale: ſeq̄ť etiā ꝙ ignis nō diciť maioris po° ꝓpter illā quātitatē ſi quātitas ſit actiua actionis diſpare ab vtraq; actione illoꝝ ⁊ nullius illaꝝ. Sequiť igiť ꝙ nullū elīmꝫ maioris erit po° ꝓpter eius quātitatē loquēdo de actiuitate illi elīmo nāliter cōpetente. pꝫ igiť ꝙ quātitas nō iuuat ad poᵃᵐ actiuā: ſed ſolū for°. Nec pōt dici ꝙ aliqḋ ſit maioris po° ꝓpter dēſitatē: q2 dēſitas eſt maior in illo ſubto ꝓpter ꝫ ꝙ plus habet de mā que nō eſt actiua: igiť lꝫ medietas illius māe eēt ablata manēte eadē for° tota po° maneret equalis ⁊ denſitas foret minor: ſi maneret quātitas toti°: igiť nō eſt ſimpl'r maioris po° ꝓpter eius denſitatē.

¶ Si igiť querať quare igiť eſt ꝙ dēſius forti° agit q̄ʒ rarius manēte eadē for° ſicut eſt de ferro ignito: ⁊ de flāma ignis. Dī ꝙ hoc eſt: q2 for° illa eſt in quātitate minori in illa mā denſiori q̄ʒ in rariori: ⁊ ſic melius applicať: ⁊ ad ſuū ꝯ̄riūꝫ vt in ip̄m agat. Sil'r eſt de lata tabula deſcēdēte in aere ſi cōprimereť ⁊ fieret rotūde figure vel q̄titatis minoris ſine ablatione forme tota illa tabula velocius deſcēderet: vt apparet expimētal'r. Cuius cā eſt: q2 meli° applicareť ad ptes medij: ita ꝙ minor pars medij ſibi obyceret q̄ʒ ꝓus: ita ꝙ minorē reſiᵃᵐ habet a medio q̄ʒ ꝓius habuit: ⁊ tamē totū in rei vitate nō eſt maioris po°: q2 nō eſt aliud argᵐ ad ꝫ ꝓbādūꝫ niſi ꝙ velocius moueť q̄ʒ ꝓus. ⁊ illud nihil ꝓbat: vt dictū eſt. Et ſic ſil'r eſt verū ꝙ tota po° eſt ex eius for°: ⁊ tñ vna pōt fortius vel debilius agere ex ꝫ ꝙ peius vel melius applicareť ſuo ꝯ̄rio. Vñ mot° non ſequiť abſolute ꝓportionē po° ad reſiſtētiā: ſed cū ceteris parib°. ſ. cūꝫ applicatione ⁊ alijs talib° ſicut in exēplo. capiať fortis hō qui certa velocitate trahat nauim ⁊ cōtingit accipe aliquē debilē qui cūꝫ aliq̄ applicatione ſufficeret ip̄m iuuare per certā latitudinē mot°: ⁊ cūꝫ alia applicatione per maiorē ⁊ cū alia per minorē: vt ꝯſtat. idē etiā agēs pōt cūꝫ aliq̄ applicatione aliq̄ velocitate agere: ⁊ cū alia maiori: ⁊ cūꝫ alia minori: ⁊ tñ po° illius maneret ꝯtinue eq̄lis: ⁊ ſic ſolū iuuat cōdenſatio ad actionē. ¶ Nota tñ ꝙ ſi eēt aliqḋ hñs formā aliquā in certa q̄titate ⁊ certa mā: lꝫ medietas illius māe eēt ablata ſtāte tota for° in quātitate ꝓhabita totū nō fiet minoris po° quo ad agēdū: ſed eq̄lis ſicut ꝓus fuit: q2 mā illa nullā habet de ſe nec habuit poᵃᵐ actiuā: ⁊ tūc etiā equebñ approximareť ad aliqḋ ſuū ꝯ̄riū ſicut exiſte tota mā in iſto toto. Et ideo cā quare ferrū ignitū plus ledit q̄ʒ flāma eiuſdē q̄titatis vel eq̄lis eſt ꝫ cā: q2 plus eſt de for° in illa quantitate ferri q̄ʒ in illa q̄titate flāme ſibi eq̄li. Si. n. ex iſto ferro gn̄ietur ignis ſūmus: ⁊ ex tāta flāma ſil'r: tūc in fine fieret ferrū illḋ valde maioris q̄titatis q̄ʒ illa flāma: eo ꝙ nūc eſt mā ferri denſior q̄ʒ mā flāme: ⁊ tūc eque rara: eo ꝙ in vtroq; tūc eēt ſūma for° ignis: ⁊ in omni pte eq̄li eēt equal'r de for°: igiť in illa mā que eſt mā ferri eēt plus de for° q̄ʒ in mā flāme: ⁊ p ꝯñs ſi vtraq; for° in vtraq; mā vniſor' foret gn̄ata in illa mā ferri plus eēt de for° q̄ʒ in mā flāme. Illud ēt ferrū ignitū plus lederet q̄ʒ flāma eq̄l'r hñs de forā: ⁊ ꝫ eēt rōne melioris applicaᵗⁱᵒ: q2 in iſto ferro q̄libet pars illi° for° eſt ꝓpinquior paſſo q̄ʒ in illa flāma: ⁊ ideo forti° ſufficit agere. Sic igiť tñ penes qḋ ſimpl'r attendiť po° reⁱ: q2 penes multitudinē forme. ¶ Cōtra hāc pōnēꝫ arguiť iferius.

Nunc ḡ opꝫ dicē qual'r vna pars iuuat aliā ad agēdūꝫ ⁊ qual'r ad reſiſtēdū. Eſt. n. dubiū qñ aliq̄ pars iuuat aliā ad reſiſtēdū: nunqd aliqḋ agat in ptē quā iuuat vel nō. ⁊ nūqd totū meᵐ reſiſtit vel nō: ⁊ tūc q̄ta eſt pars reſiſtēs: ⁊ q̄re magis iᵃ pars reſiſtit q̄ʒ alia maior: q2 nulla vr̄ cā niſi qs dicat ꝙ ꝫ eſt: q2 ꝯtingit dare aliquā ptēꝫ que ſufficit agē vſq; ad extreᵐ ad qḋ applicať agens: ⁊ eſt aliq̄ pars que nō ſufficit agē vſq; ad extreᵐ rōne diſtātie inter ipāꝫ ⁊ extreᵐ. ⁊ ideo talis pars nō ſufficeret attribuē reſiſtētiā accn̄talē illi extre°. ¶ Cōtra arᵗ illā rn̄ſionē nō valere: q2 deť illa pars que attribuit talē reſiſtētiā accn̄talēꝫ q̄ ſit. a. tūc vl' ſufficit qlꝫ pars. a. agē vſq; ad extreᵐ vel nō. ſi nō: igiť p rn̄ſionē nō q̄lꝫ pars illi° tribuet reſiſtētiā accn̄talē ad illḋ extreᵐ: ḡ p idē totū: q2 aliter ſeq̄reť ꝙ q̄libꝫ pars ad illḋ extreᵐ tribuit reſiſtētiā accn̄talē: cuiꝰ. ſ. ꝯ̄us eēt aliq̄ pars ipius. a. ⁊ p ꝯñs nō ſolū. a. pars. Si dicať alia pars. ſ. ꝙ q̄libet pars. a. ſufficit agere ad illḋ extreᵐ: ꝯtra. iſtⁱᶜ modice po° eſt aliq̄ pars. a. diſtās ab illo extremo: vt pꝫ. igiť nō q̄libet pars. a. ſufficit vſq; ad illḋ extreᵐ. ¶ Itēꝫ ſi q̄libet pars. a. ſufficit agere vſq; ad illḋ extreᵐ, cū ꝯtingat accipe aliquā ptēꝫ magis diſtātē ab extremo aliq̄ pte. a. maioris po°: ſeq̄ť ꝙ aliqua alia pars vltra. a. ſufficeret agere vſq; ad illud extreᵐ: ⁊ p ꝯñs nō ſolū. a. pars tribuet reſiſtētiā accn̄talē. ¶ Item argᵗ ꝙ nulla pars tribuat reſiſtētiā accn̄talē: q2 ſi ſic: vel aliqḋ aget in partē reſiſtētē: vel nō. ſi aliqḋ: ⁊ illud eſt qualitas. ¶ Quero igiť cuiꝰ ſit illa q̄litas vel realis vel nō. ſi ſic: dato ꝙ totū ſit ſūme calīm: aut agit caliᵗᵉᵐ vel nō. ſi ſic: ſeq̄ť ꝙ pars illa imediata agēti erit intēſior q̄ʒ ſūma: eo ꝙ deducta pte reſidua: illa pars eſſet ſūma. ſi nō aget caliᵗᵉᵐ qual'r illa pars pōt tribuē reſiſtentiā accn̄talē pti calide vr̄ ꝙ nullo°. Si igiť dī ꝙ aget q̄litatēꝫ: nullā tñ realē: nō vr̄ qual'r q̄uis modo ad inductiōēꝫ frigiditatis reſiſtet: eo ꝙ non ꝯ̄riať friditati. ſeq̄ť ḡ ꝙ illa pars diſtās nihil aget in partē reſiſtētem: ⁊ per cōſequens non iuuabit partem illam ad reſiſtēdum. Qño vna pars iuuat aliam ad agēdūꝫ.

Pro iſta mā dī ꝙ reſiſtētia eſt duplex. ſ. accidētalis ⁊ eētialis. Reſiſtētia eētialis eſt in actione hōꝝ ꝯ̄rioꝝ adinuicē. Et ſciendū eſt ꝙ illa reſiſtētia accn̄talis eſt reſiſtētia eētialis: qua vna pars iuuat aliaꝫ ad reſiſtendū: ideo reſiſtētia eētialis ptis iuuātis dī accidētalis pti que iuuať. Et cauſa eſt: q2 nō eſt ſibi itrinſeca. Vñ ſicut in potētijs actiuis qñ aliqḋ per ſe certu velociter ageret in aliqḋ paſſūꝫ: ⁊ ſibi addereť vnū aliud agens: ita ꝙ actio eius fortificareť: ita ꝙ illa duo agerēt velocius q̄ʒ vnū illoꝝ per ſe, illa po° addita dī accn̄talis reſpectu alterius po°: ſicut oīno in reſiſtētia accn̄tali eſt ꝙ ſi aliqua reſiſtāt fortius q̄ʒ vnūꝫ illoꝝ per ſe vnū dī iuuamentū alterius reⁿ: ⁊ ꝫ accn̄tale. ¶ Et tūc qñ queriť vtrūꝫ pars vna aliqḋ agat in aliā rōne cui° actionis alia forti° reſiſtat: dī ꝙ ꝫ nō opꝫ. Et tūc qñ ꝯcludiť: igiť nō forti° reſiſtit. negať ꝯñia ſicut in exēplo capiať hō fortis qui aliq̄ velocitate pōt trahē nauem: ⁊ vnus puer qui nō ſufficeret trahē per ſe nauēꝫ iuuaret ip̄m fortē hoīem in caſu ad trahēdūꝫ rōne cui° nauis velocius moueret: ⁊ tñ ille puer nihil ageret in illū hoīem. Sil'r vbi luminoſum ageret in mediūꝫ per appōnēꝫ alteri° luminoſi fortificať eius po° ad agēdū: ita ꝙ illa duo p maiorē diſtātiā agerent gradū eq̄lēꝫ q̄ʒ ꝓus: ⁊ tñ illud luminoſūꝫ aduenīēs nihil agit in luminoſūꝫ pᵐ. Et talia multa exēpla pñt poni tā de potētijs actiuis q̄ʒ de paſſiuis. vnde qñ aliqḋ agit ad trahēdū vel mouendū

Rñ
Duplex reſiſtentia.

Ad argᵐ

Hinc pen det mag pars illius difficulta tis.

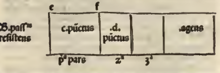
aliqͥd appoſito ſibi alio graui tardius pͥ^m mouebit̃ q̃ prius. vbi tñ illud addit̃ in pͥ^am reſiſtētiā nihil agit. ¶ Et tūc qñ dubitat̃ quāta pars reſiſtit: vbi aliqͦd agēs agit in aliud ꝑ q̄litates actiuas ⁊ paſſiuas. dr̃ ſatis rōnabilr̃ ꝙ tota pars directe appoſita illi agēti: ⁊ etiā q̄libet pars eiꝰ. Et tūc ad argᵐ qñ ſic arguit̃. Aliqua eſt pars eiꝰ que nō ſufficit age re vſq₃ ad agens: igit̃ illa pars nō reſiſtit. Negat̃ ꝯñia: qꝛ in exēplo p̄cedēti: ille puer nō ſufficeret trahē nauim per ſe: ⁊ tñ iuuat illū hoīem ad trahēdū. ¶ Cōtra illā r̄ſionē

Cōtra

arguit̃: qꝛ tūc ſequit̃ ꝙ illud qͦd eſt minoris poᵉ q̃ ſuū cō trariū nō ſufficeret agere in ſuū ꝯ̃riū nec eq̄le in ſibi eq̄le. ꝯñs eſt falſum ⁊ ꝯtra expientiā: qꝛ videmus ꝙ aliqͦd cali dū modice poᵉ agit in aerem: vel ꝙ vnū frigidū minoris poᵉ q̃ ille aer totꝰ agit in aliquā eius ptē₃. ¶ Idē etiā p₃ rōne: ſint. a. ⁊. b. duo ꝯ̃ria eq̄lis poᵉ ⁊ approximent̃ adinui cem: ita ꝙ neutrū ſm̄ illā applicationē₃ ſufficiat agere in aliud: tūc per p̄dicta. a. poſſet cōdēſari: ita ꝙ eēt melrꝰ ap plicatū ad. b. q̃ prius: ⁊. b. poſſet eē peius applicatū ad reſi ſtendū q̃ prius: ⁊ ſequit̃ ꝙ. a. ageret in. b. ⁊ eēt eq̄lis poᵉ cū₃ eo: ⁊ ſic ſtaret vnū₃ minoris poᵉ q̃ eſt. a. agere in aliquam ptē₃. igit̃ ⁊c̃. ¶ Et ꝙ illud ſequit̃ ex r̄ſione arguit̃ ſic. Si totū. b. reſiſtat ipſi. a. eo ꝙ vel eſt eo maioris poᵉ vel ei eq̄ lis: ſeq̄t̃ ꝙ poᵃ reſiſtiua eſt maior poᵃ actiua vel ſibi eq̄ lis: igit̃ iter illa nō poſſet actio ꝑuenire. ¶ Pro 1ᵒ negatur illud ſeq̄: imo ꝯcedit̃ oppoſitū illiꝰ ꝯñtis vt argᵐ ꝓbat. Et ad argᵐ dr̃ ꝙ illud ꝓcederet ſi oēs ptes eq̄les equalr̃ reſi ſterēt: vel ſi vnū ſm̄ illā applicatiōe₃ eēt eque reſiſtiuū₃ ſicut aliud actiuū: quoꝝ neutrū eſt verū: l₃. n. poᵃ. b. ſit ma ior poᵃ. a. ſtat tñ eſſe applicationē meliorē ipius. a. ad agē dū q̃ eſt. b. ad reſiſtendū. Silr̃ pͥ^m illoꝝ eſt falſum: qꝛ non oēs ptes equales equalr̃ tribuūt de reſiſtētia accn̄tali. Et cā eſt: qꝛ vna pars plus diſtat ab agēte q̃ alia: ideo peius applicat̃ vna pars ad reſiſtendū q̃ ſibi equalis ꝓpingoꝛ agenti: ⁊ ſic nō ꝓcedit argᵐ. ¶ Cōtra r̄ſionē₃ illā arguit̃ ſic. Si pars remotioꝛ minus reſiſteret pte ꝓpingori agēti cā illiꝰ erit diſtātia: igit̃ ꝓportionabilr̃ ſicut ptes diſtāt ab agēte: ita minus ei reſiſtūt. diuidat̃ g̃. b. fridū vniforme in ptes ꝓportionales v̇ſus. a. agens: ⁊ ſequit̃ ꝙ zᵃ pars ꝓpor tionalis eſt in duplo minoris reſiſtētie eēntialis q̃ pͥᵃ: qꝛ in duplo minus ꝯtinet de forma q̃ pͥᵃ: igit̃ ſi zᵃ pars per tātū diſtaret ab. a. ſicut pͥᵃ in duplo minus ſibi reſiſteret: ſ₃ nūc eſt zᵃ pars ꝓportionalis in duplo ꝓpinquioꝛ agenti q̃ tūc eēt. ergo nūc tātū reſiſtit ſicut pͥᵃ. Prima ꝯñtia p₃: eo ꝙ zᵃ pars ꝓporˡⁱˢ nō meliꝰ applicaret̃ ad agēdū q̃ pͥᵃ: vt p₃. ſe quit̃ igit̃ ꝙ nūc zᵃ pars ꝓportionalis tātū reſiſtit ſicut pͥᵃ. ⁊ per idē tātū reſiſtit 3ᵃ ſicut zᵃ: ⁊ ſic in īfinitū: igit̃ totū. b. īfinite reſiſtit ipſi. a. ¶ Uel arguit̃ ſic. Si zᵃ pars ꝓporˡⁱˢ eēt eque remota ſicut pͥᵃ ab. a. ⁊ tūc nō in duplo plus reſi ſteret pͥᵃ q̃ zᵃ: qꝛ pͥᵃ medietas p̄me ptis ꝓportionalis. b. tā tū de ſe reſiſteret ſicut tota zᵃ pars ꝓportionalis: vocando p̄mā medietatē ꝓpingorem agēti: ⁊ zᵃ medietas illiꝰ p̄me ptis ꝓportionalis. b. minus reſiſteret q̃ pͥᵃ: qꝛ eſſet remo tioꝛ ab agente. g̃ tūc tota pͥᵃ pars ꝓportionalis. b. nō in du plo plus reſiſteret q̃ zᵃ pars ꝓportionalis eiuſdē. S₃ nūc iſta in duplo plus reſiſtit q̃ tūc: eo ꝙ nūc in dupᵒ ꝓpingoꝛ eſt agēti q̃ tūc eēt: igit̃ nūc plus reſiſtit zᵃ pars ꝓportiona lis. b. ipſi. a. q̃ reſiſtit pͥᵃ pars ꝓportionalis eiuſdē. a. et per idē plus reſiſtit 3ᵃ pars ꝓportionalis q̃ zᵃ: ⁊ ſic in īfinitū₃: igit̃ īfinite totū. b. reſiſtet ipſi. a. ſm̄ illā applicatiōe₃: igit̃ cum. a. nō ſit maioris potētie actiue q̃ īfinite: ſequit̃ ꝙ. a. nō ſufficeret agere in. b. ¶ Ideo forte dr̃ ꝙ nō ꝓportiona biliter ſicut vna pars plus alia pte equali diſtat ab agēte ſm̄ extremū ꝓpinquius: ita minus reſiſtat q̃ pars ꝓpin quioꝛ agēti: qꝛ tūc ſequeret̃ ꝙ infinite plus reſiſteret me dietas īmediata agēti q̃ medietas remota: ⁊ per ꝯſequēs infinite modice reſiſteret medietas remota diſtās ab agē te vl̄ īfinite reſiſteret alia medietas. Prima pars deſtruit reſiſtentiā accn̄tale₃: eo ꝙ nulla pars tūc reſiſteret que di ſtaret tūc ab agente: ⁊ zᵃ pars deſtruit oēm actione₃: ſi. n. īfinite reſiſteret pars īmediata agenti nihil ibi poſſet inci pere agere: ideo illud nō pōt poni. ¶ S₃ dr̃ ꝙ ſicut plus diſtat ab agente ſm̄ extremū₃ remotius q̃ alia pars ſibi eq̄lis ſm̄ extremū ſuū remotius: ita minus reſiſtit. ¶ Cō tra. tūc ſequit̃ vt prius dr̃ de. b. ꝙ zᵃ pars ꝓportionalis tñ reſiſtit ſicut pͥᵃ: qꝛ extremū₃ eius remotiꝰ in duplo minus diſtat ab agente q̃ extremū p̄me ptis ꝓportionalis remo tius: vt notū eſt. ⁊ ſic 3ᵃ tñ reſiſteret ſicut zᵃ: ⁊ ſic in infini tū: igit̃ īfinite reſiſtet totū illi agēti: ⁊ per ꝯñs nō eſt actio. ¶ Itē ſic: ſit. b. vt prius vniforme: ita ꝙ q̄libet pars equa lis equalr̃ habeat de forma: ⁊ ſit. a. agens īmediatū ipſi. b. ⁊ ſequit̃ iuxta r̄ſione₃ ꝙ in duplo plus reſiſtet pͥᵃ medie tas. ſ. ꝓpinquioꝛ q̃ alia medietas: eo ꝙ extremū remotiꝰ illius medietatis eſt in duplo ꝓpinquius agenti q̃ eſt extre mū remotius alteriꝰ medietatis. Sed h̄ eſt falſum iuxta eādē₃ r̄ſionē. Diuidat̃ enim totū in 4ᵒʳ quartas: ⁊ vocet̃ illa 4ᵃ que eſt ꝓpinquioꝛ agenti p̄ma 4ᵃ: ⁊ arguit̃ ſic per hāc r̄ſione₃ in duplo plus reſiſtit zᵃ 4ᵃ q̃ vltima: vt cō ſtat: ⁊ pͥᵃ 4ᵃ magis q̃ in duplo plus reſiſtit q̃ 3ᵃ 4ᵃ vt cō ſtat: eo ꝙ pͥᵃ 4ᵃ ſm̄ extreᵐ remotiꝰ diſtat ab agēte per vnā 4ᵃᵐ totius tñ: ⁊ 3ᵃ quarta diſtat ab agente ſm̄ extremū₃ remotius per tres quartas: vt p₃. igitur pͥᵃ 4ᵃ magis q̃ in duplo plus reſiſtit q̃ 3ᵃ quarta: et zᵃ 4ᵃ in duplo plus q̃ 4ᵃ vltima: igit̃ p̄ma medietas. b. ſ. ꝓpinquioꝛ ipſi. a. ma gis q̃ in duplo plus reſiſtit q̃ zᵃ medietas: igit̃ r̄ſio fal ſa. ꝯñtia p̄cedens tenet: eo ꝙ pͥᵃ medietas eſt cōpoſita ex pͥᵃ 4ᵃ ⁊ zᵃ: ⁊ alia medietas ex 3ᵃ ⁊ 4ᵃ quarta. ¶ Ideo for te dicit̃ hāc reſpōſionē hr̄e veritatē de ptibus medietatis agēti ⁊ nō de ptibus: quarū aliqua eſt īmediata agenti: et alia mediata. ¶ Cōtra hāc reſpōſionē arguit̃ ipam ipro bādo: qꝛ iuxta illā zᵃ quarta in duplo plus ꝯferret ſeu re ſiſteret agenti q̃ vltima quarta: vt notū eſt. Sed h̄ eſt fal ſum: qꝛ diuidat̃ vtraq₃ illarū quartarū in duas medieta tes: ⁊ vocet̃ vtriuſq₃ medietatis pͥᵃ illa que eſt ꝓpinquioꝛ agenti: ⁊ arguit ſic per hāc reſpōſionem. ſcd̄a medietas il lius ſcd̄e quarte in duplo plus reſiſtit q̃ zᵃ medietas illiꝰ vltime quarte: vt p₃. ⁊ gradus quo reſiſtit p̄ma medietas ſcd̄e quarte eſt plus q̃ duplus ad gradū quo reſiſtit p̄ma medietas vltime quarte: igitur zᵃ 4ᵃ cōpoſita ex ſuis me dietatibꝰ reſiſtet gradu plus q̃ duplo ad gradū quo reſi ſtet vltima 4ᵃ. ꝯñtia tenet vt prius. ⁊ minoꝛ ſic arguit̃. Pri ma medietas ſcd̄e quarte totiꝰ diſtat ſm̄ extremū remo tius ab agente per 4ᵃᵐ ⁊ ſemiquartā: vt cōſtat. Et pͥᵃ me dietas vltime q̄rte diſtat ab agente per tres q̄rtas ⁊ ſemi quartā: vt ꝯſtat. igit̃ diſtātia iter extremū₃ remotiꝰ pͥᵉ me dietatis vltime q̄rte ⁊ agēs erit plus q̃ dupla ad diſtātiā iter extremum remotius p̄me medietatis ſcd̄e 4ᵉ ⁊ illud agēs: ⁊ per ꝯñs vt prius zᵃ q̄rta nō p̄ciſe in duplo plus reſi ſtit q̃ vltima quarta: ⁊ ſi ſic, illa r̄ſio eſſet falſa. ¶ Ideo forte dr̃ ꝙ nō ſicut vna pars alia ſibi eq̄li plus ſm̄ ꝓpin quius extremū vel ſm̄ remotiꝰ diſtat ab agēte: ita minus reſiſtit: ſ₃ ſicut tota diſtātia cathetiᶜᵃ vnius ptis recedit ma gis ab agēte q̃ tota diſtātia alteriꝰ: ita minus reſiſtit. vt ſi gnent̃ duo pedalia: quoꝝ vnū₃ diſtat ab agēte ꝑ pedale: ⁊ reliquū₃ per bipedale. ⁊ ſit h̄ ſm̄ extrema appropingoꝛa agēti: tūc ſeq̄t̃ ꝙ extremū remotius illiꝰ pedalis remotio ris qͦd ſit. d. nō in duplo plus diſtat ab agēte q̃ extreᵐ re motius alteriꝰ qͦd ſit. c. extremū. n. remotiꝰ. c. diſtat ab agē te per bipedale: vt p₃. ⁊ extremū remotius. d. per tripeda le tñ: ⁊ ſic de alijs pūctis itrinſecis. d. p₃ ꝙ nullus illorū₃ per induplo plus diſtat ab agente q̃ pūctus correſpōdēs. c. ⁊

ideo nō

ideo nō in duplo minus reſiſtit.d.q̄3.c. ſed quilʒ eius pun-
ctus intrinſec⁹ diſtat ab agēte per diſtātiā plus q̄3 ſexgal-
terā ad diſtātiā puncti corrñdentis.c.vt pʒ.extremū.n.re-
motius.d.in ſexgaltero plus diſtat ab agēte q̄3 extremuʒ
remotius.c.vt notū eſt.ideo nō pciſe in ſexgaltero minus
reſiſtit.d.q̄3.c.nec in duplo min⁹:ſʒ aliquo gradu īt̄inſeco
inter ſexgalterū ⁊ ſubdupluʒ:⁊ ſic penes diſtātiam totius
catbe^ec.⁊ iſto mō attēdenda eſt maioritas ⁊ minoritas re-
ſiſtentie ⁊c. ❡ Contra hāc rñſionē arᶠ.Qꝛ ſi ſit mediū vni-
forme ꝙ illud infinite reſiſtit ſm extremū eiᵘ:loquēdo de
vniformi vt ṗus:ꝙ in oī pte eq̄li ſit equalr ō forᵉ: qꝛ ſi nō:
ſit.b.vniforme ⁊.a.agens applicatuʒ ad extremū.b.⁊ diui-
daᶠ totū in ptes pporlēs verſus.a.quo poſito reſiſtētia ſcōe
ptis pporlis eſſentialis eſt in duplo minor reſiſtētia eſſen-
tiali ṗme ptis pportionalis:eo ꝙ ṗma pars pportionalis
in duplo plus hʒ de forª q̄3 2ª.⁊ quilʒ punct⁹ ſcōe ptis pro-
portionalis eſt in duplo ppinquior.a.q̄3 eſt punct⁹ corrñ-
dens ṗme pti pportiōali: igiᶠ tātū reſiſtit ſcōa ps pporlis
ſicut pª.Añs pʒ:qꝛ ſi nō ſit.c. ille punct⁹ ṗme ptis propor-
tionalis:⁊.d.punct⁹ſibi corrñdens ſcōe ptis pportionalis:
⁊ capiaᶠ extremū ṗme ptis pporlis ab agente remotius:⁊
ſit.e.⁊ ſit extremū remoti⁹ſcōe partis pportionalis.f.tunc
arguiᶠ ſic. Diſtātia iter.c.⁊.a.ſe habet ad diſtantiā inter.e.
⁊.a.in eq̄li ppor^ne ſic diſtātia iter.d.⁊.a.ſe hʒ ad diſtātiā.f.
⁊.a.eo ꝙ illa pūcta ſunt corrñdētia:igiᶠ pmutatiʒ ſic diſtā-
tia.c.ad.a. ſe hʒ ad diſtātiā iter.f.⁊.a.ita ſe hʒ diſtātia.e.ad
a.ad diſtātiā.d.ad.a.⁊ pª ppor^o eſt dupla:igiᶠ diſtātia.c.ad
a.eſt dupla ad diſtantiam.d.ad.a.qd̄ fuit probandum.



❡ Uel faciliꝰ arguiᶠ ſic.Sit vnū mobile ad.e.punctū:⁊
aliud ad.f.punctū ⁊ moueanᶠ vniforᶠ pertrāſeundo ṗmā
⁊ ſcōam ptem pporlem in pte equali: ⁊ ſequiᶠ ꝙ illud mo-
bile qd̄ mouebiᶠ ſupra ṗmā ptez pporlem in tpe equali in
duplo veloci⁹ mouebiᶠ ꝯtinue q̄3 illud qd̄ mouebiᶠ ſupra
ſcōaʒ ptem pportionaleʒ : qꝛ pertrāſibit in duplo plus in
eq̄li tpe:⁊ nūc in duplo plus diſtat illud ab.a.q̄3 aliud:igiᶠ
cōtinue in duplo plus diſtabit.Si.n.vna diſtātia ſit dupla
ad aliā ⁊ in duplo veloci⁹ pertrāſiᶠ vna q̄3 alia : ſequiᶠ ꝙ
reſiduaꝝ diſtātiaꝝ nō pertrāſitaꝝ cōtinue manebit vna
dupla ad aliā:cū igiᶠ illa mobilia ꝯtinue erunt ad puncta
correſpondentia:ſequiᶠ ꝙ quilʒ punctus ṗme ptis ppor-
tionalis in duplo plus diſtat ab.a. q̄3 punctus corrñdens
ſcōe parti pportiōali:⁊ per ꝯñs vt prius:ſequiᶠ ꝙ tātū re-
ſiſtet pars ſcōa pportiōalis ſicut ṗma.Iſta ꝯña pbaᶠ ſic.
Sit.c.vnū tāte q̄titatis ſicut eſt ṗma pars pportiōalis.b.
eq̄lis reſiſtētie eſſentialis ſicut eſt 2ª pars pporlis:ita ꝙ in
oī pte.c.ſit equalr de forᵉ ſicut in pte corrñdente illi⁹ ſcōe
ptis pporlis:⁊ diſtet.c.equalr ab.a.agēte ſicut pª ps ppor-
tionalis.b.ſm oīa puncta corrñdētia ⁊ arguiᶠ ſic.Equebrñ
pciſe applicaᶠ.c.ad.a.ſicut pª pars pporlis.b.⁊ eſt in duplo
minoris reſiſtētie q̄3 pª ps pporlis.b.igiᶠ in duplo min⁹ re-
ſiſtit.c.ipſi.a.q̄3 pª pars pporlis.b.⁊ ſcōa pars pporlis.b.in
duplo plus reſiſtit q̄3.c.eo ꝙ eſt eq̄lis reſiſtētie cuʒ.c.⁊ ſm
ſe totū eſt in duᵒ ppinquior.a.q̄3.c.igiᶠ tantū reſiſtit ipſi.a.
ſcōa pars pporlis.b.ſicut pª. ꝯñe cū antecedētib⁹ patent:⁊
per ideʒ tantū reſiſtent 3ª pars pporlis ſicut 2ª:⁊ ſic in infi
nitū:igiᶠ in infinitū reſiſtunt oēs ille ptes:qꝛ deducta ṗma
parte pportionali ſcōa reſiſtet eodeʒ gradu a 3ª eodē gra-
du de ſe:⁊ ſic in infinituʒ:igiᶠ infinite oēs eius partes reſi-
ſtunt.ergo ſequiᶠ intentum.

Pro iſtis di ꝙ ptes remotiores minus reſiſtūt q̄3 ptes ppingores:⁊ h̄ pp peioreʒ applica- Nota ꝓ
tionē ad agēs.Et tūc qñ ꝯcludiᶠ:igiᶠ ſic ptes plus diſtāt ſic
min⁹ reſiſtūt q̄3 ptes ꝯſiſtes ppinquiores.negaᶠ ꝯña:qꝛ nō
valet de poᵉ accñtali qualitcūqʒ loq̄mur de ppingtate to-
tius ſiue ō ppingtate alteri⁹ extremi ſic ſufficiēter in argu
mentis ppoſitis eſt arguitū.Item aliud exᵐ dato lumioſo
approximato ad extreᵐ medij vniforᶠ diſpoſiti ad ſuſce-
ptionē lumis:tūc gᵐ remiſſiorē lumis aget ad pūcta remo
tiora q̄3 ad pūcta ppingora.Et h̄ pp diſtātiā maiorē ⁊ pe-
ioreʒ:applicatiōeʒ:nō tñ pportionabilr ſic plus diſtat ab
vno pūcto q̄3 ab alio:ita gᵐ remiſſiorē lumīs ibi aget:qꝛ
tūc ad nullū pūctū datū agēt gᵐ aliquē: qꝛ dato pūcto aliq̄
aliqs punct⁹ eſt in duᵒ ppingor agēti q̄3 ille punct⁹ ⁊ alius
in q̄druplo ppingor ⁊ ſic in ifiᵐ:igiᶠ ifinite intēſiorem gᵐ
ageret ad aliquē pūctū q̄3 ad illuʒ datū. cū igiᶠ nō aget gᵐ
infiᵐ ad aliquē punctū:ſeqᶠ ꝙ ad illū datū nulluʒ gᵐ aget.
ꝯñs fſʒ.de iſto videbiᶠ pleni⁹ vbi tāgeᶠ de lumioſis.mul-
ta alia experimēta de h̄ poterūt allegari. ❡ Itē notāduʒ eſt 2°
qualr pars remota iuuat aliā ad reſiſtēdum:ad qd̄ arguiᶠ
ſic.Si agēs aliqd̄ inducat friditatē in aliquā ptē calidā:ps
reſidua calida nitiᶠ illā friditatē corrūpere : que illi frido
ꝯriaᶠ:ſed qcqd aliqd corrūpere intēdit:⁊ hoc nālr:illō idē
ad ei⁹ īductionē nitiᶠ reſiſtere.ſi.n.nō nāliter reſiſteret ad
ei⁹ inductionē nō vī rōnabile qn ſatis poſſet ſtare cū frigi
ditate ⁊ nō nālr niteteᶠ eā corrūpere.cum igiᶠ ꝯñs ſit fal-
ſum.f.ꝙ caliditas in parte reſidua nō nitiᶠ frigiditatē in-
ductā corrūpere.pʒ igiᶠ ꝙ iſto mō reſiſtit pars illa in qua
nō eſt actio. ❡ Itē eſt notāduʒ ꝙ vbicūqʒ agens tale non 3°
cognitiuū applicaᶠ ad ſuū ꝯriū ipſuʒ aget ſm vltimū ſue
potētie cū tali applicatiōe: ⁊ ſuum ꝯriuʒ ſibi reſiſtit tantū
quātuʒ cū applicatione tali ſufficit reſiſtere. ❡ Dic tñ eſt 4°
notāduʒ ꝙ nihil pōt ſm vltimū ſue potētie agere niſi fo-
ret imixto:quia nō pōt applicari ita bñ ad agenduʒ quin
melius poſſit applicari : quia ſemꝑ aliqua pars diſtabit a
paſſo:ideo poterit melius applicari ſicut patet per cōden-
ſationem:igiᶠ plus pōt hō pars coagere q̄3 tunc coageret
ſicut manifeſte pʒ: ⁊ ſic eſt de reſiſtētia. Si tñ ex hoc con-
cludiᶠ ꝙ ifinita velocitate pōt agere cū certa reſiᵉ.negaᶠ
ꝯñtia:qꝛ capiaᶠ gradus quo reſiſtit reſiſtētia ſm ptem cui
applicaᶠ agēs:tūc ſi per imaginationē totū ꝯdenſareᶠ:ita
ꝙ infinite modice fieret q̄titatis manēte forᵉ tota adhuc
eſſet ſoluʒ finite potētie:⁊ tūc eſſet optime applicatum ad
illaʒ reſiſtentiā:⁊ tunc illa reſiſtētia certo gradu reſiſteret:
igiᶠ tūc eſſet actio a pportione finita tñ : ſed nūc non pōt
tanta velocitate agere : ideo eſt illa minima velocitas ſm
quā illud agēs in ideʒ paſſuʒ agere nō pōt vt ſatis cōſtat.
❡ Itē eſt notāduʒ ꝙ ſimplex ſm punctū eius mediū ma
xime reſiſtit:⁊ hoc vbi ipſuʒ eēt vniforme.Et ṗmo arguiᶠ
ꝙ magis reſiſtit ad mediū punctū q̄3 ad extremū:qꝛ ſit.b.
tale vniforme ⁊ deᶠ vnum ei⁹ remotius extremū ⁊ appli-
ceᶠ.a.agens.ad ideʒ extremū. Et arguiᶠ ſic. Si.a.ad pun-
ctuʒ mediuʒ applicareᶠ reſiſteret equalr tª medietas que
nūc eſt imediata.a.ſicut nūc reſiſtit:eo ꝙ tunc quilʒ pūct⁹
illius equaliter diſtaret ab.a.ſicut nūc diſtat:⁊ alia medie-
tas.a.tunc plus reſiſtet q̄3 nūc reſiſtat:eo ꝙ tunc meli⁹ ap-
plicareᶠ ad.a.q̄3 nūc applieeᶠ ad ideʒ:ergo tūc.b. plus re-
ſiſteret.a.q̄3 nūc reſiſtit.a.applicato ad alterū extremum.
Conſimilr pbatur ꝙ ſi.a.applieeᶠ ad punctū terminātem
vnam quartā ꝙ minus reſiſteret.b.q̄3 ſi.a.eſſet ad punctū
mediuʒ.Sit eniʒ.c.vnū eius extremū ⁊ voceᶠ quarta ter-
minata ad.c.pª 4ª ad cuius extremū poniᶠ.a.ſ.ad ṗncipiū
ſcōe quarte ⁊ arguiᶠ ſic. Tantū reſiſtūt nūc ṗma quarta ⁊

ſcda.b.ſicut reſiſterent 2ª ⁊ 3ª 4ª.a.applicato ad punctus mediū:q² iᵉ quarte nūc applicant̄ equalr̄ ad.a. ſicut tūc iᵉ quarte itrinſece applicarent̄ ad.a.vt pꝫ.ſed 3ª 4ª nūc eq̄liter reſiſtit ſicut nūc reſiſteret pᵃ:eo ꝙ nūc equebri applicat̄ ad.a.ſic nūc applicaret̄ pᵃ vt notū eſt:ſꝫ 4ª q̄rta nūc minus reſiſtit q̄ꝫ tūc reſiſteret:eo ꝙ nūc peius applicaret̄ ad a.q̄ꝫ tunc applicaret̄:q² nūc diſtat ab.a.per duas quartas totiꝰ:⁊ tūc diſtaret ab eo per vnā q̄rtā tm̄:igit̄ ſi.a.applicaret̄ ad punctū mediū.b.fortiꝰ reſiſteret ſibi q̄ꝫ nūc reſiſtet:⁊ ſic de oibꝰ alijs pūctis eſt arguēdus ꝙ ad oīa pūcta pter pūctū mediū minꝰ reſiſtit q̄ꝫ ad mediū: ſi ad iᵃ pūcta agēs aliqḋ applicaret̄. ¶ Itē eſt notādū ꝙ oē agēs nāle actiuū ⁊ paſſiuū tm̄:eſt actiuū ſicut reſiſtiuū:q² tātū nitit̄ omne corpꝰ nāle ꝯſeruare ſeipm̄ ſicut aliud corrūpere. ¶ Itē ſi aliqḋ nitit̄ aliquā q̄litatē corrūpere/hoc erit ꝑꝑ aliquā cōtrarietatē inter illa.ſed per eādeꝫ ꝯrietateꝫ nitit̄ ꝓhibere eiꝰ ꝓductionē:igit̄ tātū nālr̄ reſiſtit ad illiꝰ q̄titᵗⁱˢ inductionem q̄tū iuuat ad eiꝰ corruptionē. ¶ Iteꝫ ſi nō ſit tātū reſiſtitiuū ſicut actiuū:ſeq̄t ꝙ vnū ꝯriū poſſꝫ aſſimilare ſibi aliud ⁊ eꝯ ſm̄ applicationē illoꝝ duoꝝ:dū tn̄ eſſent eq̄lis potētie.a.calīm.b.fridum:ſit.n.poᵃ vtriuſqꝫ actiua duᵃ ad reſiᵃᵐ ſm̄ certā applicationē:g̊ vtrūqꝫ in reliquū eq̄li velocitate aget.ſ.ex ꝓporᵗᵉ dupla:g̊ vtrūqꝫ reliquū aſſimilabit:q² ſemꝑ manebit hȯ ꝓportio in vtroqꝫ:q² nō eſt maior rō q̄re aliqd eſt in duplo magis actiuū q̄ꝫ reſiſtitiuum: qn̄ qōlꝫ ſit in duplo magis actiuū q̄ꝫ reſiſtitiuū.ſed ꝯñs eſt falſuꝫ.Similr̄ nō eſt maior rō q̄re magis aliqḋ eſt magis actiuū q̄ꝫ reſiſtitiuū in duplo qn̄ qōlꝫ in q̄druplo ſit magis actiuū q̄ꝫ reſiſtitiuū ⁊ ſic deincepſ:igit̄ in infinitū eſt actiuū vel infinite modice eſt reſiſtitiuū. ¶ Iteꝫ aliter ſequit̄ ꝙ ideꝫ calefit ſimul ⁊ frigefit:vt ſi vnū ſit eq̄lr̄ hn̄s de calitate ſicut de friditate:tūc ſi calitas ſit magis actiua q̄ꝫ reſiſtitiua ⁊ calitas ꝑciſe eſt tātuꝫ reſiſtitiua ſicut friditas:igit̄ nūc friditas eſt reſiſtiᵘᵃ minꝰ q̄ꝫ calitas eſt actiua: ⁊ ꝑ ꝯñs per calitateꝫ dn̄at̄ ſuꝑ reſiſtentiā ꝑ friditatē: ⁊ ſic totū calefit oio ⁊c̄.Et ꝯſilr̄ arguit̄ ꝙ frigefit.Conſilr̄ pōt argui ꝙ ideꝫ ſimul aſcēdat ⁊ deſcēdat.ſ.tale eq̄lr̄ cōpoſitū ex g̊ui ⁊ leui.Similr̄ vbi aliqd agit in aliud: ip̄m agit per formā eiꝰ cū certa applicatiōe ⁊ ꝑ eādeꝫ formā alij reſiſtet:igit̄ cum iᵃ forᵃ nō ſit cognoſcitiua tātū reſiſtet iᵃ forᵃ cum illa applicatiōe ſicut ageret ſi eſſet cum ſilī applicatiōe:eo ꝙ actio per totā formā ſit ſic applicatā ⁊ etiā reſiᵃ.

Agēs nāle tantum eſt actiuū q̄tuꝫ reſiſtiuuꝫ.

Ex iſtis etiā cōcludit̄ ꝙ inter vniformia ſm̄ eaſdem qualitates nō pōt eſſe actio cum reactiōe ſic intelligēdo ꝙ vnū agat in reliquū per vnā q̄litatem ⁊ patiat̄ ab aᵒ per q̄litateꝫ ꝯriā vt ꝙ vnū calefaciat aliud ⁊ eꝯ ab illo frigefiat:⁊ hoc ſiue fuerit eq̄lis potētie ſiue ieq̄lis. qa ſi ſic:ſit illud.a.calīm vniforme ⁊.b.frigiduꝫ vniforme. ⁊ arguit̄ ſic.Si.a.ſit eque actiuū cūꝫ illa applicatiōe ſicut b.eſt actiuū:⁊ vtrūqꝫ eſt ꝑciſe eque actiuū cum iſta applicatiōe ſicut reſiſtitiuū:pꝫ ꝙ.b.cū iſta applicatiōe eſt tātū reſiſtitiuū ipſi.a.ſicut.a.eſt actiuū:⁊ ſi ſic.a.cū illa applicatione nō aget nec ſufficit agere in.b.nec.b.in.a.ꝓpter eādē rōneꝫ.Si.a.ſit magis actiuū cū iſta applicatione q̄ꝫ.b.⁊.a. eſt eque reſiſtiuū ꝑciſe ſicut actiuū per ꝓmū: g̊.a.cum iſta applicatiōe eſt magis reſiſtitiuū q̄ꝫ.b.eſt actiuū.⁊ hoc ſꝫ ſuā calitatē.⁊ ꝑ ꝯñs.b.nō ſufficiet agere in.a. ⁊ ſi ſic nō erit reactio. ¶ Et nota ꝙ hic nō ſoluꝫ loquēduꝫ eſt ð vniformi quo ad intenſionē ſed etiā quo ad formā cuiꝰ quelꝫ pars eq̄lis eq̄lr̄ ꝯtinet ð forma. ¶ Ubi tn̄ vtrūqꝫ eſt vniforme ſtat vnū agere ſm̄ vnā q̄litateꝫ ⁊ aliud reagere ſm̄ aliā q̄litatē: vt dato vno mixto ex igne ⁊ aqua vniformi:⁊ alio ex aqua ⁊ aere:ſtat vnū illoꝝ agere in reliquū ſm̄ ſuā caliditatē que eſt ſumma corrūpendo friditatē eiꝰ remiſſam ad nō gradū:⁊ ecōtra aliud ſm̄ eiꝰ humiditatē ſūmā

Inter vniformia ſꝫ eaſdē qualitates nō poteſt eſſe reactio.

agere in reliquū corrūpendo ſiccitatē remiſſaꝫ ad nō graduꝫ:⁊ ſic nō eſt incōueniēs reactionē eſſe nec in ſe includit aliquā difficultatē.Et tūc dī ꝙ illis ſic adinuiceꝫ applicatis in illis nō ceſſabit reactio anteq̄ꝫ aer ſummꝰ in vtroqꝫ g̃ñet̄:⁊ hoc ſi ſit tāta ꝓporᵒ poᵉ calitatis vniꝰ ad friditateꝫ alteriꝰ:ſicut eꝯ eſt ꝓportio hūiditatis vnius ad ſiccitateꝫ alteriꝰ:ita ꝙ ille q̄litates.ſ.ſiccitas ⁊ friditas eq̄lr̄ diſtent a nō gradu:q² ſi ꝓportio nō fuerit eq̄lis:aut vbi qualitates ineq̄lr̄ diſtent a non gradu/reactio durat quouſqꝫ ex vno generet̄ ſummꝰ aer:⁊ illud poſtea ꝯtinuabit actionē ſuam quouſqꝫ ex alio g̃ñet̄ aer ſummꝰ ſi aliūde nō fuerit ipedimentū:⁊ ſic nō ceſſabit reactio ꝑꝑ ſilitudinē ſm̄ extrema approximata vt ꝑdictū fuit:q² tūc nunq̄ꝫ poſſꝫ vnū ſūmū aſſimilare aliud ſummū ſibi ꝯriū:q² citiꝰ inducet q̄litateꝫ eiꝰ ſūmā ad extremū ſibi imediatū q̄ꝫ ad pūcta itrinſeca. ¶ Itē inter difformia pōt eē actio ⁊ reactio ſicut ſi ꝯtingit aliqḋ ita difforᵉ eē ꝙ vnū multo minoris poᵉ q̄ꝫ eſt ipſum applicatū ad ꝑtē aliquā.ſ.debileꝫ illiꝰ rōne diſtātie partis reſidue ab iᵃ ꝑte ſiue ab agēte in ip̄m agat ſicut ex ꝑcedentibꝰ declarat̄:nō ſic itelligēdo ꝙ ſint due ꝑtes imeᵗᵉ:ita ꝙ per vnā ſit actio:⁊ ꝙ iᵃ reagit:ſed ſic imaginādo ꝙ ſint.a. ⁊.b.duo ꝯria:vnū calidū.ſ.a.⁊.b.frigiduꝫ:⁊ ſit pᵃ 3ª.a.magne poᵉ:⁊ 2ª modice:⁊ 3ª magne poᵉ: ⁊ ſit ecōtra de.b.ſ.pᵃ eiꝰ 3ª modice poᵉ:ita ꝙ.a.ſm̄ eiꝰ pᵃᵐ 3ᵃᵐ dn̄et̄ ſupra pmaꝫ tertiā.b.⁊ 2ª eiꝰ 3ª ſit magne poᵉ:ita ꝙ ſm̄ illaꝫ ſufficit agē in 2ᵃᵐ 3ᵃᵐ.a.⁊ ſit 3ª tertia.b.modice poᵉ:ita ꝙ vltᵃ 3ª.a.ſufficiat agē i illā ſicᵗ eſt ſatis poẛe:q̊ poſito.a.ſꝫ aliquā eiꝰ ꝑteꝫ in.b.aget:⁊ ſm̄ aliquā patiet̄ ab eodeꝫ.b.nō tn̄ patiet̄ ſm̄ ꝑtē illā ꝑ quā imeᵗᵉ aget:⁊ ſic nō eſt difficultas in iſta mā̄. Iuxta h̄ ꝯcedēduꝫ eſt reactionē eē poẛeꝫ tam iter eq̄lia q̄ꝫ inter ineq̄lia per q̄litates actiuas ⁊ paſſiuas ⁊c̄.

Per iſtas ſoluūtur oīa arᵗᵃ ſcā in iᵃ mā̄. ꝓ pūa.n.rō ꝓbat ſoluꝫ ꝙ reactio pōt eē ſm̄ q̄litates diſꝑatas:qḋ nō eſt icōueniēs/hita poſſiᵗᵉ caſus ibi poſiti.ſ. ꝙ.a.ignis purꝰ dn̄et̄ ſm̄ calitatē ſupra friditatē.d. aque:⁊ ſm̄ ſiccitatē ſit in ſubdn̄io:lꝫ tn̄ h̄ forte de puris ſit ipoẛe: de mixtis tn̄ ſatis eſt verū ꝙ ſm̄ vnā q̄litatē ⁊ ſm̄ reliquā eſt in ſubdn̄io vt ꝑdictū eſt. ¶ Ad ꝑdicta experimēta ibi allata:⁊ pmo ad pᵐ pōt dici multiplr̄.ꝓrio.ſ. ꝙ illud ferruꝫ ignitū nō eſt calīm ſꝫ friduꝫ ſicut appꝫ:eo ꝙ lꝫ in loco quodāmō calo poneret̄ eiꝰ calitas remitteret̄:qḋ nō foret niſi eēt dn̄iuꝫ friditatis itriſece ſuꝑ calitatē: ⁊ tūc pōt dici ꝙ iſta friditas intriſeca remittit calitatē eiꝰ ꝓpriā: ⁊ ſꝫ eiꝰ calitatē vna cū calitate aeris circūſtātis igrediētis cū illo ferro in aquā calefacit illā aquā: ⁊ ſic nō eſt reactio ꝓprie niſi quo ad ſenſuꝫ tn̄. ¶ Alr̄ pōt dici admittēdo ꝙ ferrū ſit calīm:⁊ tūc dī ꝙ mā̄ aeris eſt inflāmata ingrediēs cum ferro in aquā:cuiꝰ ꝑtes eo ꝙ leues ſunt appetūt aſcendere vſus ſurſuꝫ ⁊ aſcēdunt:⁊ ſic q̄diu manēt ꝑtes illiꝰ aeris in aq̄ appꝫ iᵃ aq̄ calā:⁊ tn̄ in rei veritate iᵃ aq̄ nō eſt calida: ⁊ ſic nō agit ferrum in aquā. Tertio pōt dici ⁊ meliꝰ ꝙ in ferro ⁊ in oī tali mixto ſunt pori repleti aere ſiue vapore ſubtili q ab agēte calido ſuſcipiūt actionē ⁊ ſit exhalatio meᵗᵉ vapore ſubtili ſic ignito ⁊ calefacto:⁊ talis aer vel vapor exhalās frigefit cū ferrū pōit̄ in aquā:⁊ ſic dicimꝰ totū repari qḋ eſt flꝫ. ſꝫ ꝑs dēſa ⁊ magne poᵉ nō reparit̄ ſm̄ ꝑteꝫ aliquā ſed agit ſm̄ ꝑtē denſaꝫ:⁊ patit̄ ſm̄ ꝑtem rarā ꝓpter eius difformitatē:nō tn̄ totū eſt magis actiuū q̄ꝫ reſiduū:q² ſm̄ illaꝫ ꝑtem rarā ſm̄ quā patit̄ agens minꝰ eſt actiuū q̄ꝫ ſm̄ ꝑtem denſaꝫ maioris potētie ſm̄ quā agit in paſſum ⁊ non reparit̄ ſm̄ eā.Similr̄ tot ſunt pori imixtis inſenſibilr̄ diſtātes qḋ dicimꝰ per totū eſſe reactiones ꝑꝑ hoc ꝙ exhalatio totā ſuꝑficieꝫ circūdat: ⁊ ſic ex oī ꝑte vapor calidus igredit̄ in poros carnis in q̄ eſt neruꝰ tactꝰ:q nerius de facili trāſmutatur:⁊ ſic ſentimus. vnde per hoc

Ad argumēta ꝓ hāc reactionē poſſibilem.

Nota hoc qa hꝫ magnā difficultatē in via q̄rtā.

dicit̃ q̃ ratione diſſormitatis in ferro ⁊ in aqua mixta ſm
aliquã partem põt eſſe actio ⁊ ſm aliquam reactio vt di/
ctum eſt. Nec põt aliqs vere experiri ibi eſſe actionẽ per
totũ: nec q̃ hec mixta ſint vniformia. ¶ Sed ſi forte arg'
q̃ aliq̃ ps paſſi eſt ſm quã eſt actio ipſius agẽtis ⁊ ẽ͂: ita
iſta ps agit in ptẽ imediatã illi' agẽtis: h̃ dz negari vt pre/
dicit̃. ¶ Pro 2° expimẽto dĩ q̃ in aq̃ cal'a eſt multa fridi
tas: que cũ friditate iducta per aquã fridaz cal'itatẽ illi'
aque remittit: ⁊ ſic q̃ aq̃ ifuſa nõ remittit totã cal'itatẽ illã
ſed diuidit̃ in ptes multas ⁊ ꝯiungit̃ cũ ptib' aque calide:
⁊ ſic tota aq̃ ꝯiuncta ſit fridior q̃ꝫ prĩo erat p'. Uel põt cõ
cedi q̃ aq̃ ifuſa remittit cal'itatẽ aque p̃habite ſꝫ aliquas
ptes: ⁊ hec calefit ſm aliquas ptes nõ tñ per ptes p quas
ĩme'' agit. Uel ſi per totã illaz aquã p̃habitã ſit actio ꝓue
niens ab aq̃ frida põt dici q̃ illa aq̃ infuſa nõ ſtatiꝫ calefit
ab aq̃ cal'a: ſed diuidit̃ in puas ptes: rõne cui' eius friditas
nõ põt bñ ſentiri: ⁊ ſic ad ſenſuz appet illa aq̃ cal'a que tñ
in re nõ eſt calida. ¶ Ad 3ᵐ experimẽtuꝫ dĩ q̃ aer in ſinu
rõne corpoꝝ calidoꝝ a corpe hũano diſſolutoꝝ ⁊ cũ aere
extrinſeco ꝯiunctoꝝ calidior efficit̃: ⁊ etiã man' eſt multũ
poroſa ⁊ infra manũ ſunt ſpũs ſubtiles q̃ de facili trãſmu
tant̃ ab illo aere calido: ⁊ ſic p talez actionẽ ſentim' cal'z: ⁊
alie ptes man' p̃nt agere friditatẽ in ſinũ: que ptes in caſu
nõ repatiunt̃ ab illo ſinu ſeu aere calido exñte in illo ſinu.
Conſil'r eſt vbi man' cal'a calefacit aliqđ friduz puta po/
muz ⁊ ecõtra frigefit: q̃ h̃ eſt ſm diuerſas ptes rõne diſ/
formitatis in hꝫ mixtis. ¶ Idez oĩno eſt dõm ad 5ᵐ expe
rimentũ q̃ man' frida appoſita capiti calido dolenti ma/
nus calefit ⁊ caput frigefit: q̃ puа corpa cal'a exeunt a ca/
pite ⁊ ingrediunt̃ poros man' ⁊ cal'efaciunt corpa debilia
incluſa in manu rõne cui' actiõis ſentit̃ man' calida. ⁊ ẽ͂
corpa frida in manu ſiue a manu exeũtia agunt friditatẽ
in corpa debilia in capite vel in carne incluſa: ⁊ ſic ſoluũt̃
oĩa experimẽta que de actiõe nãli inter elñta allegantur.
Ubicũqꝫ eniꝫ ſentim' reactionẽ aliquã, illa eſt iter corpa
mixta multũ diſſormia: rõne cui' diſſormitatis per aliquã
ptez põt eſſe actio ⁊ per aliquã ecõtra reactio. ¶ Pro 4°
experimẽto de diuiſione ⁊c. ſatis põt cõcedi: q̃ ibi nõ eſt
reſiſtẽtia accñtalis ꝓprie. Non eniꝫ vĩ qual'r vna ps iuua
bit ad reſiſtẽduꝫ reᵘ alteri', niſi illa pars moueret̃ ad mo/
tionẽ alterius ptis: vel niteret̃ vna pars diuiſa alia pte ptẽ
illaz cõtinuare. qđ nõ videt̃: quia qñ lignũ diuidit̃: vel qñ
ferrũ diuidit̃ vna pars nunq̃ꝫ appetit cõtinuare ptes reſi/
duas: ſed in actione nãli inter elemẽta cũ vna ps remittit̃
pars reſidua nititur aſſimilare illam partem: ⁊ nititur nã/
liter qualitatẽ in illam ptẽ inductã corrũpere: ⁊ ſic reſiſtit
agẽti. Et ideo vl'iter eſt tenẽduꝫ q̃ in oĩ motu locali ⁊ diui
ſionis nulla pars reſiſtit niſi illa quã reqrit̃ moueri motu
aliquo. ſ. motu cõdenſationis: vel rarefactionis: vel motu
locali: vel alio motu qñ eſt iſta diuiſio: vt qñ hõ leuat ba/
culum ille ptes ſunt ita cõtinue q̃ ſi baculus maneat rect'
nõ poterit mouere vnã ptẽ niſi moueat totũ baculuꝫ: ideo
totus baculus ſibi reſiſtit. Sil'r qñ lapis ꝓycit̃ in aquam
per multas ptes illi' aque eſt mot' ꝯdẽſationis ⁊ mot' lo/
calis vt pꝫ per experimẽtũ: ⁊ ideo tota iſta pars aque que
mouet̃ rõne illi' diuiſionis reſiſtit illi diuidẽti ⁊ nõ aᵃ ps:
⁊ ſtat partẽ remotã tantũ reſiſtere ſicut ꝓpinquaz. hec tñ
nõ dĩ ꝓpria reſiſtẽtia accñtalis: ſed vt p̃dictũ eſt in altera/
tione multe ptes reſiſtũt in qb' nõ eſt alteratio: ⁊ iõ illud
argᵐ reactionẽ verã nõ ꝓbat: que. ſ. eſt inter q̃litates acti/
uas ⁊ paſſiuas. ¶ Aliter g̃ per aᵐ expimẽta arᵣ ſic. Min'
denſat maius: igit̃ p idez min' põt agere in mai'. Uel ſic.
inter hꝫ quodã mõ denſa ſibiinuicẽ obuia eſt mutua ꝯdẽ/
ſatio: igit̃ per idez inter cal'm ⁊ fridum vel aliq̃ ꝯ̃ria ꝯſil'r
adinuicẽ ꝓportionata. ¶ Pro iſto negat̃ ꝯñtia. ⁊ cã eſt: q̃

In motu locali nñ reſiſtit illa ps q̃ mo/uetur aliq̃ modo.

denſuz obuiãs alij denſo remiſſo nõ ꝯdenſabit̃ ſolum ex
actiõe alteri': ſꝫ ex reſiſtẽtia alteri': eo q̃ vna pars corpis
velo'r deſcẽdens ꝯdenſat ptes eiuſdem corpis: vt pꝫ ſic qñ
corp' magnũ liquiduꝫ quodãmõ vel molle ponit̃ ſup den
ſum quieſcẽs: ſupior ps corpis mollis ꝯdenſat ptẽ inferio/
rem: ⁊ ſic idez agit ad ꝯdẽſationẽ ꝓpriã ſm diuerſas ptes.
ſed in ꝯ̃rijs applicatis nulla ps paſſi nec aliq̃ ps agentis
iuuat ad alterationẽ ꝓpriã. ſ. ad ei' remiſſionẽ: vel remiſ/
ſionẽ toti' cui' eſt pars: ſꝫ nitit̃ reſiſtere cũ toto ⁊ totũ con
ſeruare: ſed corpa que mutuo ꝯdenſant̃ vtrũqꝫ ad ꝓpriaz
ꝯdẽſationẽ agit qđ nõ iuenit̃ in ꝯ̃rijs: ⁊ ſic nõ ꝓcedit arᵐ.
Sil'r 1ᵃ duo experimẽta nõ ſunt incõuenientia: nec ſũt ꝯtra
modũ cõem negãdi reactionẽ: q̃ reactio negat̃ inter ꝯ̃ria
vbi. ſ. ille actiões ꝯ̃riant̃: vt q̃ vnũ calefaciat aᵈ ⁊ ẽ͂ frige/
ſiat ab eodẽ. ¶ In iſtis tñ experimẽtis allegatis illi mot'
nõ ꝯ̃riant̃. ſ. ꝯdẽſatio vni' ⁊ condẽſatio alteri': vel diuiſio
vni' ⁊ diuiſio alteri': imo illi mot' ſunt eiuſdez ſpẽi ſpãliſ/
ſime: ⁊ hꝫ reactio nõ negat̃: imo poſito q̃ eſſent duo cal'a
quoꝝ vtrũqꝫ calefaceret reliquũ vel iuuaret ad cal'itatez:
eo q̃ iſti mot' nõ ſunt ꝯ̃rij, nullaz difficultatẽ iduceret tñ/
dendi ſicut pꝫ manifeſte: tñ õ arᵐ nõ ꝯcludũt ꝯ̃ ꝓpoſitum.
Si tñ vnũ ꝯdẽſaret reliquũ ⁊ rareficeret ab iſto: tũc eẽt co/
lor aliqs in argũ'. vel ſi in experimẽto p̃poſito vnũ diui/
deret reliquũ ⁊ ecõtra: illud diuidẽs ab eo cõtinuaret̃ ſm
ptẽ diuiſaz: vt ſi diuideret mãz aliquã cui' eſt mã ꝯtinua/
tiua ſicut eſt viſcus: ⁊ q̃ illa ſm ptes nõ diuiſas igrederet̃
ptes ſepatas illi' diuidẽtis eaſdez ptes ꝯtinuãdo vel cõti/
guãdo iſtius mãe in quã ꝓcedit diuiſio talis. Et ſic in ꝯdẽ
ſatiõe ſtat vnã ptẽ ꝯdẽſare aliã ptẽ: ⁊ tũc illa ps ꝯdenſans
nõ rarefit per eãdez ptẽ per quã eſt iᵃ dẽſatio: ⁊ ſic nõ ꝓce
dunt expimẽta. ¶ Ideo al'r arᵣ ſic. Si aliqs ignis paruus
poſit' ſit in aliq̃ pte magne aque ipſaz calefacit ⁊ eandez
euapoꝛare facit: ⁊ h̃ nõ eẽt niſi ignis ille ageret in illã aquã:
⁊ aqua illuꝫ ignẽ total'r corrũpit: igit̃ reactio eſt poſſibilis.
¶ Pro iſto dĩ qñ ignis agit in aquã ſũt m'lte exhalatiões
ignis igrediẽtes aquã que ſeparãt puã aquã a tota ⁊ ipſaz
ſepatã calefaciũt: ⁊ ſic nõ eſt reactio ꝓpꝛe. Uel põt dici q̃
ille exhalatiões que diffundunt̃ in aquã ſentiunt̃ a nobis:
ac ſi tota vel magna ps aq̃ eſſet calefacta ⁊ ſic ſenſus erat:
⁊ tũc pp iᵃ corpa cal'a in iᵃ aq̃ ſenſata dicim' iᵃᵐ aquã cale/
fieri: ⁊ tñ illa nõ calefit. ¶ Al'r põt argui p auctes 3° phy. T.c.8.
vbi ponit̃ q̃ oẽ mouẽs nãl'r in mouẽdo mouet̃. Et p̃mo đ 16.
gñõne q̃ oẽ agẽs nãle in agẽdo repatit̃. Iſtđ ẽt pꝫ in mul/ T.c.53.
tis alijs locis ex qbus inuenit̃ reactionẽ verã eſſe poſſem. 54.
¶ Pro iſtis igit̃ auctib' ⁊ alijs que in ꝯ̃riũ allegant̃ dĩ q̃
iᵒ vbũ moueri, acci'r pro illo termino vel pro iſtis eſſe mo/
bile: ⁊ ſigat q̃ oẽ mouẽs nãle itelligẽdo de his q̃ mouẽtur
hic iferi' cuiuſmodi ſũt iſta elñta: ⁊ ex his cõpoſita q̃ per
cõtactũ eoꝝ adinuicẽ agũt: vt loqmur p̃ de gñõne cap' de t.c.44.
tactu in agẽdo mouet̃. i. eſt mobile tali motu quo mouet: 45.
vel ꝯ̃rio motu ab aliquo. ſ. eiuſdez ſpẽi cũ illo moto. Et ſil'r
qñ dĩ q̃ oẽ agẽs in agẽdo repatit̃ intelligẽdo de elñtis vt
p̃us: q̃ oẽ tale agẽs nãle natũ eſt repati ab agẽte ſibi ꝯ̃rio
⁊ nõ intelligit q̃ omne tale agens actual'r repatiat̃: ſicut
multotiẽs ponit q̃ omne corpus nãle mouet̃ ad ſuũ locũ:
qđ nõ eſt verũ niſi intelligat̃ per illud verbũ mo'r eſſe mo
bile. Ex his rñſionẽ elicere poteris tam ad auctoritates q̃ꝫ
ad experimẽta. ¶ Ideo ſummarie dĩ q̃ inter vniformia Summa iſtius opi/nionis.
ꝯ̃ria loquẽdo de vniformi: ita q̃ oẽs ptes equales equal'r
cõtineãt de forma ſiue iᵃ vniformia ſint eq̃lia in po' pre/
ciſe ſiue ineq̃lia nõ eſt reactio: loquẽdo de reactiõe duos
motus. ſ. contrarios includente ſicut ſunt calefactio ⁊ fri/
gefactio humectatio ⁊ deſiccatio. Inter tamen diſſormia
bene põt eſſe actio cum reactione: ⁊ hoc ſm diuerſas par/
tes tam inter equalia in potentia q̃ꝫ inequalia: vt predici/

tur: ⁊ tunc erit iſta actio ſm proportionem potentie cum iſta applicatiōe ad totā reſiſtentiā paſſi cū eadē applicatiōe: ⁊ nō ſm ꝓportionē toti⁹ ad ptem vt ponit cōis poſitio. De alijs tn̄ motib⁹ q̄ nō ꝯtrianꝉ nō eſt incōueniēs eē reactiōes in illis ſicut calefactio ⁊ deſiccatio: ⁊ ſic de alijs.

Intellectis his quedā dubia ſūt mouēda. Primū eſt: nūqd agēs vniform̄ ſꝫ alterū extremū applicatū ad ꝯtrariū in qd̄ certo gradu cū illa applicatione ſufficiat agere: ſilr̄ ſi ad aliud ei⁹ extremū applicareꝉ vnū aliud ꝯtrariū eq̄lr̄ diſpoſitū cū priori: quoꝝ neutrū in reliquū ſufficiat agere tardi⁹ agat in iſta duo q̄ȝ in vnū illoꝝ per ſe. Qd̄ ſic arguiꝉ: qꝛ ſi nō ſit illd̄ agēs. a. ⁊. b. c. iſta duo paſſa: tūc a. aget tardi⁹ in iſta duo q̄ȝ in vnū illoꝝ per ſe ſicut eſt de luminoſo. Naȝ cū tota lux candele cōcurrit ad vnū locū domus fortior eſt actio q̄ȝ ſi iſta lux diffundereꝉ per totā domū: qꝛ aliter per reflexionē nunq̄ȝ lux intenſior cauſareꝉ. Sic in ꝓpoſito ſi actio alicui⁹ agentis in duo paſſa tendit cū quelꝫ ps agat in illud in qd̄ totū: ſeq̄ꝉ q̄ totū agit in iſta duo tardi⁹ q̄ȝ in vnū illoꝝ per ſe. ¶ Ad ideȝ arꝛ ſic. Sit. a. ignis alterat⁹ a duob⁹ frigidis: tūc ſi. a. alterareꝉ ab vno tm̄: non ita velo͛ alterareꝉ ſicut nūc alteraꝉ: igiꝉ per idem eꝫ qn̄ agens agit in plura tardius agit q̄ȝ ſi in vnū illoꝝ ſolū. Silr̄ iſta duo forti⁹ reſiſtūt q̄ȝ vnū illoꝝ per ſe: ḡ cū illud agēs equebn̄ approximaꝉ ad vnū illoꝝ ſicut ad iſta duo: ſeq̄ꝉ q̄ tunc tardi⁹ agit in iſta duo q̄ȝ in vnuȝ illoꝝ per ſe. ꝯña tȝ ⁊ añs arguiꝉ: qꝛ vnuȝ illoꝝ tātū reſiſtit ſicut aliud: eo q̄ ſimplr̄ eq̄lis ſunt po͛ vt ſuppono ⁊ equebn̄ ad ideȝ agens approximanꝉ: igiꝉ iſta duo in duplo plus vel ſaltē plus reſiſtūt q̄ȝ aliqd̄ illoꝝ per ſe ſolū. ¶ Hoc ſic ꝯfirmatur. Si eſſet vnū cōpoſitū ex his duob⁹ paſſis vnū iuuaret reliquū ad reſiſtēduȝ: ⁊ vtrūqꝫ illoꝝ reſiſteret illi agenti: cuȝ ḡ nūc vtrūqꝫ illoꝝ equebn̄ approximeꝉ ad ideȝ agēs ſicut tunc: ⁊ tūc iſta duo magis reſiſterēt q̄ȝ vnū illoꝝ per ſe: eo q̄ ps toti⁹ cōpoſiti iuuat aliā ad reſiſtēduȝ: ḡ nūc iſta duo magis reſiſtunt q̄ȝ vnū illoꝝ ꝑ ſe: ⁊ eadeȝ eſt po͛ agēs que tunc eſſet: ḡ tardi⁹ ageret iſta po͛ in illa duo q̄ȝ in vnū illoꝝ per ſe. ¶ Itē ſi hō hēt duo eq̄lia pōdera in manib⁹ tardius leuaret vnuȝ ꝑꝑ reliquū: vt appȝ experimētalr̄: cui⁹ cā eſt reſiſtentia alteri⁹ ⁊ tota po͛ agit in totā reſiſtentiā: qꝛ oē agens ꝯtinuū ex oī pte ſui iuuaꝉ in agēdo: ⁊ in qd̄cunqꝫ totū agit / in illud coagēdo agit quelꝫ ps ei⁹: igiꝉ ſiue in duo ꝯtinua ſiue diſcōtinua fiat actio toti⁹ ⁊ cuiuſcūqꝫ ptis / totū ⁊ quelꝫ ps ei⁹ ex h̄ q̄ plura eideȝ toti ⁊ ptib⁹ reſiſtunt / tardius agit in iſta duo q̄ȝ in vnū illoꝝ ꝑ ſe.

Ad opm ¶ Ad oppm̄ arꝛ ſic. Utrūqꝫ agit ſm vlīm̄ ſue po͛: eo q̄ eſt po͛ nō coḡſcitiua ⁊ neutrū iuuat reliquū ad reſiſtēduȝ: igiꝉ eq̄lr̄ nūc agit in vtrūqꝫ ſicut ſi alteruȝ eēt ablatū. Minor ſic arguiꝉ. Unū illoꝝ diſtat totalr̄ ab alio inter que intercipiꝉ ꝯtrariū vtriuſqꝫ illoꝝ in qd̄ neutrū pōt agere: q̄re neutruȝ agere poterit in reliquū: igiꝉ neutrū illoꝝ ab alio diſtās iuuabit reliquum ad reſiſtentiam. ¶ Cōfirmaꝉ ſic: eo q̄ neutrū eoꝝ ſufficit agere

2° per aliquā ptē illi⁹ intercepti inter iſta duo. igiꝉ ⁊c. ¶ Iteȝ capiaꝉ latitudo ꝑ quā vnū illoꝝ īpedit actionē illi⁹ agentis in reliquū: ⁊ ſeq̄ꝉ q̄ ita modica poſſet ꝓpor͛ eē ſꝫ quā ageret in reliquū q̄ illud totā actionē in reliquū īpediret: ⁊ per ꝯñs dato vno maioris po͛ q̄ȝ eſt illud datū ageret in illud agēs ṗncipale. ꝯñs falſum: eo q̄ tale ſm iſtā applicationē eſſet maioris po͛ q̄ȝ eēt iſtud datū agēs ṗnlꝛ. ¶ Silr̄ illud agēs nō debilitaꝉ in ei⁹ actione vbi agit in duo talia: eo q̄ neutrū aget in ipm: ⁊ ſtat q̄ neutruȝ iuuet reliquū ad reſiſtēduȝ rōne diſtātie intercepte ſicut ſi inter duo talia poneretur obſtaculuȝ per qd̄ neutrū ſufficeret agere ⁊ vni approximareꝉ aliqd̄ agēs reliquū nō iuuaret ipm ad reſiſtēdum: ⁊ hoc rōne illius obſtaculi intercepti: ſed iſtd agēs tātū impedit q̄ȝtū illud obſtaculuȝ: eo q̄ in vtrūqꝫ agit ⁊ neutrum in ipſuȝ: igiꝉ dubiū nō eſt verum.

Pro iſto dr̄ q̄ in caſu dubiū eſt verū: ⁊ in caſu nō: Solo qꝛ in caſu illud agēs nō equebn̄ approximaꝉ ad illa duo ſicut ṗmo applicaꝉ vni ſicut qn̄ hō leuat lapideȝ vel baculuȝ cū vna manu ⁊ apponiꝉ vnum graue alteri manui: in caſu vnuȝ illoꝝ īpedit leuationē alterius. cuius cā eſt: qꝛ ṗmo applicat totā ſuā potentiā ad leuationem vni⁹: deinde nō niſi ptē ꝑꝑ illā appōneȝ. Sed in actiōe nālī inter eīnta illud totā ſuā potentiā applicat quā cū illa applicatione ſufficit: ⁊ iō appō alteri⁹ nō tollit actiōeȝ ei⁹ cū maneat ꝯſilis applicatio ſicut prius vꝉ neutrū aliq mō in aliquā ptē medij intercepti ſufficit agere: qd̄ mediū vtriqꝫ cōtrariaꝉ. ¶ Et tūc ad pm̄ arm̄ admittiꝉ caſus: ⁊ dr̄ tūc q̄. b. c. nō plus reſiſtunt q̄ȝ vnū illoꝝ per ſe. Et ad exm̄ de luminoſo dr̄: q̄ nō ſolū eſt actio ꝑꝑ illud luminoſū ſꝫ ꝑ reflexionē: qꝛ illud obſtaculuȝ rōne luminis acti ad ei⁹ ſupficiē agit lumen ⁊ intēdit lumē actū ab iſto luminoſo: ⁊ tn̄ nō magis reſiſtunt iſta duo media q̄ȝ vnū illoꝝ per ſe. vn̄ dr̄ q̄ ſi per imaginationē eſſet vacuū ex vna pte luminoſi nō intēſi⁹ lumē ageret in medio ab iſto illuminato q̄ȝ ageret in illud mediū: dato q̄ eēt vnū aliud mediū alteri ei⁹ extremo applicatū: eo q̄ tūc nō eēt reflexio: ⁊ ſic h̄ nō eſt rōne medij appoſiti: quia lumē remiſſi⁹ agit in mediū pcedabitū: niſi qꝛ ṗus fiebat ibi reflexio: ⁊ nūc nō eſt ibi reflexio: ⁊ ſic non magis reſiſtunt iſta duo me⁹ q̄ȝ vnū illoꝝ. ¶ Itē ideȝ ꝯfirmaꝉ. agat. a. luminoſuȝ in. b. c. media oīo ꝯſilia: tūc ſi tardi⁹ vel remiſſius lumē agit in. b. rōne. c. igiꝉ ꝯdenſato. c. magis ei⁹ actio īpedireꝉ: eo q̄. c. tūc ſm ptē diſtāteȝ meli⁹ ipſi applicareꝉ. ſed ꝯñs eſt falſuȝ: qꝛ ponaꝉ q̄. c. mediū ſit ita rarū q̄ tunc nō ſufficit cauſare reflexionē vſqꝫ ad. b. ⁊ ꝯdēſeꝉ. c. ⁊ ſeq̄ꝉ manifeſte q̄ ita pōt ꝯdēſari q̄ ſufficeret cauſare hō reflexionē in. b. ⁊ ſi ſic forti⁹ aget. a. in. b. lumē q̄ȝ ſi. c. nō eſſet cōdenſatū. ideo arm̄ nō ꝓcedit: qꝛ nō remiſſius lumē agit in vnū q̄ȝ in reliquū rōne reſiſtētie alteri⁹. Et tūc ad aliō arm̄ dr̄ q̄ añs nō vlr̄ eſt verū. ⁊ hoc intelligēdo de ṗmo inſtāti applicatiōis: qꝛ cā q̄re tardi⁹ vnū aget q̄ȝ iſta duo / eſt: quia vnū approxiaꝉ alteri extremo: ⁊ remittit illa q̄litas alteri⁹ reſiſtētis: ita q̄ tota reſiſtentia alteri⁹ fit minor rōne actiōis illi⁹ appoſiti. ⁊ ſic ſi. a. ignis applicareꝉ. b. c. terris: quaruȝ neutra ad punctū mediū ipſi⁹. a. ſufficeret agere: ita q̄ ſue actiōes ad nullū punctū ꝯcurrerēt in nō ꝓporꝛ incipet reſiſtentia eē minor re⁹ vni⁹ agētis q̄ȝ ſi alterū eēt ablatū: eo q̄ nōs certā q̄litatē aliqd̄ illoꝝ incipit corrūpere: ⁊ ſic in nō ꝓporꝛ incipit agere. b. veloci⁹ q̄ȝ ſi. c. eēt āmotū. vbi tn̄ ſue actiōes ad eundeȝ punctū cōcurrerēt tūc iſta duo ad pūctū taleȝ multū velocī⁹ agerēt q̄ȝ vnū illoꝝ ꝑ ſe: qꝛ vtrūqꝫ ibi certa velocitate ſufficeret agere: ⁊ ſic aliqn̄ illa duo agētia forti⁹ alterabūt q̄ȝ ſi ꝓtunc vnū illoꝝ eēt ablatuȝ: ⁊ in caſu nō. Sꝫ h̄ ſemꝑ eſt veꝝ q̄ applicatis iſtis duob⁹ agētib⁹ equebn̄ ſicꝉ alterum illoꝝ ꝑ ſe añ qd̄cūqꝫ inſtās datū forti⁹ aget vnuȝ illoꝝ ꝑꝑ reliquū cui⁹ cā eſt remiſſio q̄litatis ad extremū ad qd̄ approximaꝉ que totā reſiſtentiā re⁹ alteri⁹ facit minorē: eo q̄ q̄lꝫ pars iuuat aliā ad reſiſtēduȝ: ⁊ tunc qn̄ ꝯcludiꝉ: igiꝉ ꝑ ideȝ qn̄ aliqd̄ agit in 2° in duplo tardi⁹ q̄ȝ in vnum agit. negaꝉ ꝯña: qꝛ neutruȝ eoꝝ ſufficit quouis mō minorare potentiam alteri applicatā: ⁊ tāntū ēt diſtant q̄ lꝫ agens aliquā q̄litatem induceret in vnā ptē quācūqꝫ modicā ⁊ ſtaret iſta diſtātia reliquū agere nō appeteret iſtā q̄litatē remittēdo: qꝛ appetit⁹ nālis cauſat reſiſtentiā accidētaleȝ vt ṗus dictū eſt. Et tūc ad arm̄ negaꝉ q̄ illa duo plus reſiſtunt illi agenti q̄ȝ vnum illoꝝ per ſe: lꝫ iſta equalr̄ reſiſtant: qꝛ ex illis nō fit reſiſtentia vna. ¶ Ad confirmationē negaꝉ ꝯña: qꝛ ſi eſſet vnum cōpoſituȝ ex illis q̄ȝcito eſſet aliqua qualitas in vnuȝ acta iſtd amoto agente principali iuuaret ad corruptionē illi⁹ q̄litatis ⁊ hoc appeteret qd̄ nō oportet iſtis exiſtentib⁹ ſepa

ratis ⁊ tantus diſtãtibus. ¶ Aliud argm ſoluit in poſitiõe. ¶ Quidaꝫ tñ dicunt dubiũ illud vniuerſaliter eſſe veruꝫ: ⁊ dicunt ꝙ vnũ iuuat reliquũ ad reſiſtẽdũ in caſu: tñ videt̃ ꝙ valde difficile eſt ponere per quẽ moduꝫ eſſet iſta reſiſtẽtia: elige igit̃ quãcũqꝫ partem volueris.

Dum 2m Adhuc põt eſſe dubiũ. nunquid ex duob⁹ difformibus ſm extrema adinuicẽ approximata ſilib⁹ ipſis põt adinuicẽ agere. Et arr ꝙ ſic: qꝛ nõ obſtãte ſilitudine ad extrema adinuicẽ approximata: ſm tñ aliq̃ pũcta iſta ſunt ſatis diſſimilia: igit̃ rõne illi⁹ ↄ̃trietatis actio põt eſſe inter illa. ¶ Hoc ſic ↄ̃firmat̃. Sit.n.a. inteſi⁹.b. ita ꝙ remiſſius extremũ.a. ſit eq̃ inteſuꝫ cũ extremo inteſiori.b. Et arr ſic. Si a. eẽt vniformis gu ad quẽ terminat̃.b. in extremo inteſiori.a. ſufficeret agẽ in.b. qꝛ aliter nũq̃ aliqd ſũmũ alteri aſſilaret: eo ꝙ citi⁹ induceret̃ gradus ſũm⁹ ad extremũ imediatũ q̃ ad pũcta intrinſeca. cũ igit̃ nũc.a. eſt maioris po q̃ eẽt tũc: ⁊ ad oẽs ei⁹ pũctũ eſt q̃litas inteſior q̃ tũc eẽt ⁊ equebene approximat̃.a. ad.b. ſicut tũc: igit̃ nũc aget in.b. ¶ Ad ideꝫ ſic arr. Sint.a.b. duo calia difformia vt prius: ⁊ argr ſic. Si tota caliditas.b. eſſet ablata ⁊ maneret ſua friditas difformis ſicut nũc eſt: ex quo caliditas.a. dñat̃ ſufficiẽter ſup iſtã friditatẽ ⁊ friditatẽ intrinſecã vt eſt poſſibile: tũc.a. appeteret agẽ ⁊ ageret in.b. rõne ↄ̃trietatis inter caliditatẽ.a. ⁊ friditatẽ.b. ſꝫ nũc eq̃liter eſt ↄ̃trietas ſicut tũc: eo ꝙ ↄ̃trietas eſt ſoluꝫ ex caliditate ⁊ friditate. nec caliditas intrinſeca.b. ipediret actionẽ.a. in.b. imo potius iuuaret ad actionẽ caliditatis: igit̃ a fortiori nunc appetit agere in.b. vt ei⁹ friditatẽ corrũpat. ¶ Silr ſi ſilitudo eſſet cã q̃re inter iſta nõ eẽt actio: ſeqr ꝙ nũq̃ poſſet vnum ſũmũ aſſimilare aliud: eo ꝙ erit velocior actio ad extremũ imediatũ agẽti q̃ ad pũcta intrinſeca ꝓꝑ applicationẽ meliorẽ: ⁊ ſic erũt ſilia ſꝫ extrema adinuicẽ approximata anteq̃ erit aſſilatio cõplete fcã. ¶ Silr arr. Ubi difformia oino ſũt ſilia ⁊ ſm extrema inteſiora adinuicẽ applicant̃ ꝙ vnum ſufficit agere in reliquũ ⁊ aget. ſit.n. vnũ.a. ⁊ aliud.b. ⁊ argr ſic. Caliditas.a. lꝫ ſit ſilis caliditati.b. ſm extrema eoꝝ approximata: eſt tñ inter caliditatẽ.a. ⁊ friditatẽ.b. ſufficiẽs ↄ̃trietas vna cum ſufficiẽti dñio vt ſuppono: ⁊ caliditas.b. nõ reſiſtit inductioni caliditatis: vl corruptiõi friditatis: imo poti⁹ iuuat ad ei⁹ corruptionẽ: igit̃.a. ꝑ ſuã caliditatẽ ſufficit agere in.b. ⁊ ei⁹ friditatẽ corrũpere: ⁊ ẽt.b. in.a. intẽdendo ei⁹ caliditatẽ ⁊ remittẽdo friditatẽ ei⁹. ¶ Ad idẽ arr cõfirmãdo argm factuꝫ: ex quo caliditas.a. ſe hꝫ ad friditateꝫ.b. in ꝓportiõe maioris ineq̃litatis: ↄ̃tigit dare ſũme calidm po minoris q̃ eſt.a. vel vnũ vniformis gu quo eſt extremũ inteſi⁹.a. ꝙ ſit minoris po per caliditatẽ q̃ eſt.a. ꝙ hẽat ẽt ſe ad friditatẽ in.b. in ꝓportiõe maioris ineq̃litatis minori q̃ eſt ꝓportio caliditatis.a. ſup friditatẽ.b. eo ꝙ põt accipi aliqd ſũmũ ſeu vniformis remiſſuꝫ quocũqꝫ gu volueris alicui⁹ po ⁊ aliqd ſub eodẽ gu in dupľ minoris po ⁊ ſic in infinitum: qd ſit.c. ⁊ ſic ſic.c. ſufficit agẽ in.b. nõ obſtãte ſilitudine ſꝫ extrema approximata: qꝛ aliter nũq̃ vnũ ſummũ vniforme poſſet ſibi aliud ſũmũ ſibi ↄ̃trariũ aſſilare vt prius õductũ eſt: igit̃ cũ.a. ſit maioris po q̃.c. ⁊ ſꝫ extremum approximatũ ad.b. eſt maioris po ⁊ eq̃ inteſuꝫ ſicut eſt.c. ſeqt̃ per idẽ ꝙ.a. agit ⁊ nitit̃ agere in.b. igit̃ pꝫ ps affirmatiua.

In opm ¶ In oppm argr ſic. Si.a. approximatũ ad.b. aget in.b. vbi approximat̃ ſm extrema inteſiora eque inteſa eadẽ rõne b. aget in.a. ⁊ ſi ſic ſm eadeꝫ ptẽ ageret.a. in.b. ⁊ eõ repatet̃. ↄ̃ñs eſt ↄ̃ pdcã de reactiõe. ¶ Itẽ dato illo ſeqt̃ ꝙ dato vniformiter difformi medietas inteſior ageret in medietatẽ remiſſiorẽ ipſaꝫ intẽdendo: eo ꝙ lꝫ ille medietates ſm extremũ terminãs vtrãqꝫ medietates ſint eque intenſe: ſunt tñ ſm pũcta intrinſeca ſatis diſſilia. ⁊ ſi ſic. ſi tale vniformiter difforme eẽt terminatũ ad ſũmũ ſm alterũ ei⁹ extremũ illud ſeipſꝫ ad gm ſũmũ reduceret: eo ꝙ ps inteſior nitit̃ agere in ptez remiſſiorẽ. ¶ Itẽ ſi ſic ſeqt̃ ꝙ ſi eẽt aliq̃ vniformiter difformis olo diſſilia ad ſũmũ terminata: quoꝝ vnũ ſupponeret̃ alteri nõ obſtãte ſilitudine oiuꝫ pũctoꝝ adinuicẽ approximatoꝝ rõne ↄ̃trietatis ꝑtiũ diſſiliũ iſta ſufficiẽt agere adinuicẽ. ¶ Itẽ ex illo ſeqt̃ ꝙ ideꝫ eẽt mouẽs ⁊ motũ immediate reſpectu eiuſdeꝫ actionis: dato.n. tali mixto difformi caliditas remitteret friditatẽ ⁊ nõ erit remiſſio friditatis niſi ꝑ actionem vni⁹ elemẽti in illo mixto: ⁊ per corruptionẽ illi⁹ frigiditatis ſeu actionẽ illi⁹ calidi illud calidm intẽderet̃: qꝛ non erit aliud intẽdẽs caliditatẽ niſi ipꝫ: igit̃ idẽ calidm erit immediate ſeipſuꝫ calefaciẽs. ↄ̃ñs eſt falſuꝫ. igit̃ ⁊ dubium ⁊c̃.

Pro iſto di ſuſtinẽdo ptẽ affirmatiuã: qꝛ aliter vt dicetur eſt opꝫ iſtas ↄ̃ñes concedere. ſ. ꝙ.c. eſt vnũ calꝫ ſufficiẽs ſibi aſſilare.b. remiſſius eo: ⁊.a. eſt vnuꝫ calꝫ in duplo maioris po q̃.c. ⁊ calidi⁹.c. ſm ſe ⁊ qolꝫ ſui: ⁊ tñ.a. approximatũ ad.b. ſm extremũ remiſſi⁹ nõ ſufficiet agere in.b. ¶ Silr ꝙ.a. non ſufficit agere nec aſſilare ſibi b. ⁊ ꝙ.a. ſm ſe ⁊ qualꝫ ei⁹ ptẽ per magnã latitudinẽ remittet̃ ſtãte applicatiõe eadẽ ⁊ fcã iſta remiſſione ſufficiet agẽ in.b. que tñ nõ ↄ̃ueniũt rõni. ex quo eniꝫ.a. eſt maioris po q̃.c. ⁊ magis ↄ̃riat̃ ipſi.b. q̃.c. vl tantũ ſicut.c. ſufficiat agere in.b. ⁊.a. a fortiori in idẽ.b. ſufficiet agẽ: ⁊ ille ↄ̃ñes ſequũtur dato oppoſito dubij. Quia ſit.b. vniformiter difformis remiſſum: ⁊ ſit.c. remiſſum vniformis gradu ad quẽ terminat̃.b. in extremo ſuo inteſiori ⁊ ſufficiet.c. aſſimilare.b. ⁊ ſit.a. vniformiter difforme in centuplo maioris po q̃.c. terminatuꝫ in extremo remiſſiori ad gm ſub quo eſt.c. tũc dato oppoſito dubij.a. nõ ſufficiet agere in.b. ſi remiſſi⁹ ei⁹ extremũ approximat̃ extremo inteſiori.b. vt pꝫ: ſeqt̃ igit̃ pa ↄ̃cluſio. ſcda etiã ſeqt̃: qꝛ ſi.a. remittet̃ ad inteſionẽ.c. tũc ſufficeret agere in.b. ſicut nũc.c. ſufficit. Jõ di ptez affirmatiuã dubij eẽ verã.

¶ Et di ꝙ in primo arto in oppm nõ deducit̃ ad aliqd incõueniẽs: qꝛ vt prius tangebat̃ de reactiõe di ꝙ ſm ptẽ eãdẽ nõ eſt poſſibilis actio cũ reactiõe qualitatũ ↄ̃triaꝝ: ꝙ tñ calidm vnũ iuuet ad calefactionẽ alterius ⁊ ecõtra nõ eſt incõueniens vt di in ſolõne ſexti experimẽti. ¶ Pro 2o arto põt dici ſatis rõnabiliter ꝙ tota caliditas ſm ſe totã agat corrũpẽdo friditatẽ in tali vniformiter difformi ⁊ reducet ſeipſum ad vniformitatẽ extremi inteſioris vel ad gm ſummũ niſi ipediat̃ aliũde vt per formã ſupadditã: vel per corpa ſupceleſtia vel per alia intrinſeca. illud.n. elemẽtum dñans nitit̃ eſſe in ſua maxia ꝑfectiõe nãlr. ſi igit̃ nõ ipediat̃ ad illam ꝑfectiõeꝫ ageret que eſt eẽ ſub gradu ſũmo. Et idẽ põt rõnabiliter ↄ̃cedi de vniformi remiſſo ꝙ illud elm̃tũ ſeipm ad gradũ ſummũ intẽdet ⁊ remitteret friditatẽ ſecũ coexiſtẽtẽ. ¶ Et ſi arguit̃ ex illo: igit̃ ſummũ aget in ſeipſuꝫ: qꝛ magis capax eſt ⁊ ipſiuꝫ alicui⁹ caliditatis eſt actiuũ. Negat̃ ↄ̃ña: qꝛ forma ſumma elemẽti maxia eſt que in iſta mã haberi põt ⁊ hõ forme certe diſpõnes in mã nãliter correſpõdent ſicut forme ſumme terre correſpõdet certa denſitas nãlr: ⁊ forme ignis correſpõdet certa raritas qbus diſpõnib⁹ habitis illud nõ eſt natum agere diſpõneꝫ aliquã vlteriorẽ: qꝛ nec talis illi forme cõpetit: ⁊ ſic habita forma ſumma nõ eſt ideꝫ natũ agere in eandeꝫ mãꝫ: forma tñ remiſſa que deficit in illo gu qui eſt finis quaſi nãlis in actiõe hõ nãli intent⁹ ſicut loc⁹ vel quies in loco nãli nãlr intendit̃ ab elemẽto: ideo forma remiſſa nitit̃ intendere ſubiectũ in qd agit ad illuꝫ gradũ: quo gradu habito nãlr ceſſat motus. ¶ Ad 3m argm di cõcedendo ↄ̃ñeꝫ. ſ. ꝙ vtrũqꝫ iuuabit reliquũ ad remiſſioneꝫ ſue friditatis: ⁊ põt rõnabiliter vt prius cõcedi ꝙ vtrũqꝫ intendet̃ ad gm ſuũ inteſiſſimũ: vel ad gradũ ſũmũ. ¶ Ad 4m argm negat̃ hoc ꝙ ideꝫ in hõ actione in mixto difformi ſit imediate mouens et̃ motũ ⁊c̃. imo vbi caliditas inducit caliditateꝫ, illud qd imediate mouet̃ eſt elementũ: ⁊ illud qd mouet ad illaꝫ caliditateꝫ eſt caliditas iſta habita: qꝛ elementũ eſt illud qd caliditatẽ recipit ⁊ caliditas agit caliditateꝫ

Ad arm in oppm

remiſſio

ſm ſic forma movet totū cōpoſitū ⁊ nō movet īme ſeipſaʒ:
ſi tn̄ caliditas iſta agēs foret ſubm caliditatis acte bn̄ ꝓcede-
ret argm̄: ⁊ ſic ſa caliditas que īme movet nō intēdit ſeipſaʒ:
ſʒ ſubʒ cuius ē ipa caliditas ⁊ ēt caliditas iductā: qđ ſubʒ ſeparatū
eſt ſiue diſpatū ab illa caliditate agēte: ⁊ ſic nō ꝓcedit argm̄.

3m dum. **Aliter pōt dubitari.** Nunqd aliqđ ſummuʒ in aliqđ aliud ſummuʒ
ſibi 𝔷riū poſſit agere. qđ ſic pʒ manifeſte: qꝛ vnū 𝔷riū ſupra
reliquū pōt dominari: alr eniʒ eſſet oīs actio nālis ablata.
igr̄ ⁊c. ℭ Ad oppm̄ ſic arr. Si dubiū ſit verū ſit. a. ſumme
calm ⁊. b. ſumme fridū ⁊ agat. a. in. b. ⁊ arr ſic. Ex ꝓporne
ſoluʒ finita incipit agere in. b. eo ꝙ eſt pōe finite ⁊. b. certe
reſiſtētie: vel igr̄ acta caliditate in. b. que ꝯtinue corrūpetur
per actionē. b. deducto. a. agēte ꝯſeruabit. a. caliditatē actā a
ꝓportiōe finita vel a ꝓporne infinita. nō 2m: qꝛ tūc nullū
agēs illaʒ caliditatē corrūperet ſtāte iſta caliditate: ⁊. a. agente
cōſeruāte. nulla eniʒ pōa pōt hr̄e maiorē ꝓpornē ad corrū-
pendū illā caliditatē q̄ꝫ eſt ꝓporo: ex qua. a. eandē ꝯſeruabit:
ex quo. a. ꝯſeruabit a ꝓporne infinita. ⁊ ꝯn̄s ad qđ deducit
eſt falſuʒ vt notū eſt: eo ꝙ ꝯtingit accipere fridū maioris
potētie q̄ꝫ eſt pōa caliditatis ipſius. a. cū pōa caliditatis iducte:
⁊ ſi ſic/ſeqr̄ ꝙ. a. ſoluʒ ꝯſeruabit caliditatē inductā a ꝓporne
finita: cū igr̄ an̄ qđcūqʒ inſtās erit aliq̄ ꝓporo friditatis. b.
ad ſuā caliditatē ⁊ dupla tripla ⁊ q̄drupla ⁊ ſic in infm̄: ḡ ſeq-
tur ꝙ imediate poſt hoc maior erit ꝓporo friditatis. b. ad
corrūpenduʒ ſuā caliditatē in ipſuʒ inductā q̄ꝫ erit ꝓportio
ex qua. a. tantā caliditatē ꝯſeruabit: qꝛ infinita erit ꝓporo fri-
giditatis. b. ad ſuā caliditatē: ⁊ per ꝯn̄s an̄ qđcūqʒ inſtās aget
friditas. b. remittēdo caliditatē in ipm iductā: ⁊ ſic per eādē
ptē ſil̄r erit actio friditatis ⁊ caliditatis qđ eſt ipoſſe. ℭ Pro
iſto forte dr̄ ꝙ ſi caliditas. a. ꝯſeruaret caliditatē inductā in. b.
ex ꝓportiōe quā. a. ageret in. b. optie valeret argm̄: ſed nūc
eſt ꝯſeruatio ex ꝓportiōe totius potētie. a. ad pōa illius ca-
liditatis iducte ⁊ illa ꝓporo ꝯtinue erit maior q̄ꝫ ꝓporo frigi-
ditatis. b. ad eandē caliditatē: eo ꝙ caliditas. a. ꝯtinue erit ma-
ior friditate. b. ⁊ ſic. b. nō ſufficit agere remittēdo illaʒ cali-
ditatē. a. ſtāte ſic applicato. ℭ Cōtra dataʒ hāc riſionem/
ſeqr̄ ꝙ. a. ꝯſeruabit caliditatē. b. ꝯtinue: ex ꝓportiōe minori
⁊ minori: eo ꝙ pōa. a. ꝯtinue erit tāta preciſe ſicut nūc eſt: ⁊
pōa. b. ſm caliditatē ꝯtinue maiorabit: ⁊ per ꝯn̄s ꝯtinue minus
⁊ minus ꝯſeruabit caliditatē actā. ꝯn̄s eſt irrōnabile: qꝛ ꝯtie
eque bn̄ applicat ad q̄litatē intēſiorē ſicut pus ad remiſ-
ſiorē ⁊ ſemp manebit eq̄lis: igr̄ ꝯtinue equalr ꝯſeruabit.
igr̄ ⁊c. ℭ Itē ſi ſic ſequitur ꝙ in infm̄ īme poſt h̄ ꝯſuabit: eo
ꝙ imediate poſt hoc infm̄ modicū erit de caliditate in. b. ⁊ ꝑ
ꝯn̄s infinite magna erit ꝓportio īme poſt hoc: ⁊ per ꝯn̄s
quātacūqʒ magna pōa friditatis imediate poſt hoc appli-
caret. b. nō ſufficeret agere remittēdo caliditatē in eo actaʒ.
ℭ Itē dr̄ inſtās in quo caliditas. b. erit eq̄lis pōe cū cali-
ditate. a. ⁊ tūc ante illud inſtās erit aliq̄ ꝓporo ⁊ in duplo
minor ⁊ in q̄druplo minor ⁊ ſic in infm̄: inter caliditateʒ. a. ⁊
caliditatē. b. igr̄. a. infinite modice an̄ finē ꝯſeruabit ⁊ in fine
nō ꝯſeruabit: ⁊ per ꝯn̄s tūc nō fortius reſiſtet caliditas in. b.
q̄ꝫ ſi. a. eſſet ablatū. ⁊ per idē neutra medietas plus reſiſtet
q̄ꝫ ſi aa eſſet ablata: ⁊ ſic tolleret reſia accidētalis. ſed ꝯn̄s
eſt falſum. ergo reſponſio nulla.

Ideo dicit alr ꝙ ſicut reſia non eſt ex ꝓporne reſi-
ſtentis ad agēs nec ꝯſeqr̄ ꝓportioneʒ
ſm illaʒ pōaʒ reſiſtēteʒ: qꝛ oībus eq̄lr reſiſtit. ſ. ſm vltimuʒ
ſue potētie vbi eſt pōa nō cognoſcitiua: ſʒ vna pōa fortius
agit in ima reſiam q̄ꝫ aa: qꝛ hoc eſt rōne maioris pōe ⁊ nō: qꝛ
ſa reſia plus reſiſtit vni q̄ꝫ alteri ſic ꝯſeruare nō ꝯſeqr̄ pro-
portionē inter ꝯſeruās ⁊ ꝯſeruatū: nec inter illud ꝯſeruās
⁊ pōam intēdentē illud ꝯſeruatū corrūpere: qꝛ ꝯſeruare eſt
quodāmō reſiſtere, ſʒ abſolute ꝯſeqr̄ ꝯſeruātis pōam: ita ꝙ
ſa pōa ꝯſeruās cū eq̄li applicatiōe eq̄lr ꝯſeruat illud qđ ab eo
ꝯſeruat ſiue illud cōſeruatū maioret ſiue minoret in pōa
ſicut illud qđ iuuat aliud ad reſiſtēduʒ: ſiue illud qđ iuuat
ſit minoris pōe ſiue maioris ſemp equalr iuuat ſtāte appli-
catiōe cū pōa ſua: ⁊ ſic ſoluit argm̄ in ꝑte oppoſitā dubij.
ℭ Cuʒ igr̄ q̄rit nūqd. a. ꝯſeruabit ex ꝓportiōe finita vel
ex ꝓporne infinita. dr̄ negādo diuiſionē ſic intelligendo ꝙ
cōſeruatio ſeqr̄ ꝓpornē inter ꝯſeruās ⁊ illud ꝯſeruatū ita
ꝙ ꝓporo ⁊ ꝯſeruatio correſpōderēt in gradu ſicut eſt de velo-
citate motus ⁊ ꝓportiōe inter pōam motiuā ⁊ reſiſtentiā. vel
pōt dici ꝙ ſicut reſiſtētia nō ſeqr̄ ꝓportionē pōe adinui-
cem: ita nec actio aliquā taleʒ ꝓpornē ꝯſeqr̄: ſed abſolute
ꝯſeqr̄ pōam agētis: ⁊ ſic actio dr̄ maior: qꝛ eſt a maiori pōa
ſm vltimū eius agētis. nec dr̄ illa actio magna: qꝛ ꝓuenit
a pōa agēte ſm magnā ꝓpornē: ſed illa de cā actio dicitur
velox: qꝛ ꝓuenit a magna ꝓportiōe: ⁊ ideo bn̄ dr̄ ꝙ velo-
citas actiōis ꝯſeqr̄ ꝓportionē ⁊c. ſʒ nō actio ia: qꝛ maioreʒ
actionē facit fortis hō portādo magnū pōdus q̄ꝫ vna mu-
ſca portādo paruū pondus: ⁊ tn̄ in caſu multū velocior eſt
actio illa. ſ. portatio ꝓueniēs ab illa muſca q̄ꝫ ab illo hoīe:
⁊ ſic nō ꝓcedit argm̄: eo ꝙ fundat ſup hoc ꝙ ꝯſeruare ſeu
reſiſtere ꝯſequat ꝓpornē qđ eſt negāduʒ. Qualr tn̄ actio
cōſequit potētiaʒ agentē magis tractabit īfra vbi ſpālius
dicet de difficultate actionis.

ℭ Tractatus octauus de potentia rei.

Nunc arguit 𝔷 pōneʒ ponentem ꝙ pōa rei
attēdit penes multitudinē forme in
mā ⁊ nō attēdit penes intēſionē illius forme nec
extēſionē. Naʒ ex iſto ſeqr̄ ꝙ aliqđ eſt infinite p a 3 o.
intēſe calʒ per totū ⁊ eſt pedalis q̄titatis: ⁊ tn̄
ſoluʒ eſt finite potētie. ℭ Silr. a. ⁊. b. ſunt duo eque cala ꝑ 2 a
totū ⁊ ſunt eq̄lia: quoꝝ vnū eſt īfinite potētie ⁊ reliquū ſo-
lum finite potētie. ℭ Cōtra iſtas duas argr ſic. Si. a. ⁊. b.
ſint eq̄lia ⁊ ſunt eque intenſa ꝑ totū: igr̄ ꝑ q̄litatē iſtā ſunt
eq̄lis potētie: igr̄ neutrū eſt alio maioris potētie: igr̄ ſcđa
ꝯclō falſa. ℭ Itē 𝔷 pā argr ſic: qꝛ ꝯtingit ꝯcipe aliquid
infinite calm per totū īfinite potētie: vt ꝓbat in 𝔷ne 2a: ⁊
nō eſt maior rō de vno q̄ꝫ ad alio: igr̄ ſi. a. erit īfinite calm
per totū ipm erit īfinite potētie: ḡ pa ꝯclō eſt fſa. ℭ Ex tn̄
iſte 𝔷nes ſequātur arr ſic. Sit. a. bipedale vnifor calidum
per totū: ⁊ ſit in oī ꝑte eq̄li equalr de forma: ⁊ diuidat in ptes
ꝓportionales verſus aliud extremū: ⁊ ponat ꝙ caliditas ſcđe
ptis ꝓporlis vnir extēdat per pmā ſicut nūc extendit per
ſcđaʒ: ⁊ ſic ēt caliditas tertie ptis ꝓporlis per pmā ſicut nūc
per tertiā ⁊ ſic in infm̄: ⁊ ſit oīs talis ꝯſilr extēſa ꝑ totā pmam
ptē ꝓporlem ſicut nūc extēdit per ptē in qua eſt: quo facto
illa pma pars ꝓporlis eſt īfinite intēſe cala: qꝛ eque intēſe
denoiabit illa caliditas que nūc eſt in aliq̄ alia ptē ꝓportio-
nali pmā partē ſicut nūc denoiabit ptē per quā extēdit:
qꝛ tūc erit ꝯſilis extēſio caliditatis illius ſicut nūc eſt: ⁊ ſic oēs
ille caliditates īfinite denoiabūt illaʒ ptē ꝓportiōaleʒ. Uel
arguit ſic. Ad oēʒ punctū ſcđe ptis ꝓporlis eſt tāta intenſio
ſicut ad punctū correſpōdentē pme ptis ꝓporlis: cuʒ igr̄ oīs
intenſio ad aliquem punctuʒ ſcđe ptis ꝓporlis coextēdatur
cū intēſione ad punctū correſpōdentē pme ptis ꝓporlis: ſeqr̄
igr̄ ꝙ addita caliditate ſcđe ptis ꝓporlis caliditati pme ptis
mō dicto ad oēm punctū duplicabit intenſio: ⁊ ſic addita
caliditate tertie ptis ꝓporlis pme triplicabit intēſio ⁊ ſic in
infm̄: igr̄ in fine erit pa pars ꝓporlis infinite intenſe cala ⁊
erit pedalis q̄titatis: ⁊ tūc erit ſoluʒ finite potētie: qꝛ tunc
tantū pciſe vel ita multū habebit de forma illa ſicut nunc hʒ
totū: igr̄ tūc nō erit maioris potētie q̄ꝫ nūc eſt totū. ꝯn̄s ꝯtra
īpoſita pōnem: ſequit igr̄ ꝯclō pa pro fine tpis. ℭ Scđa ēt
ꝯclō pʒ ſic. Sit vnū pedale vniforme: ad cuius oēm punctū
duplex intēſio ⁊ quadruplex intenſio ⁊ ſic in infinitū: ⁊ ſic

etiam

eiꝰ duplicet forᵉ qñ duplicat̃ itenᵉ: vt ſit nūc vnū ifiᵐ in cuiꝰ
oi pedali ſit equalr̃ de forᵉ: ⁊ ſint oīa pedalia eque itenᵃ: et
extēdātur caliᵗᵉˢ in oi pedali poſt pᵐ in p̄ pedali ɔſilr̃ ſicut
nūc extēdunt̃ in toto pedali cuiꝰ eſt. ⁊ ſit illud pedale. b. ⁊
ſeqt̃ ꝙ ad oēm pūctū. b. duplicabit̃ ⁊ triplicabit̃ forᵃ: ⁊ ſic
in ifiᵐ. ⁊ in p̄ pedali tūc erit ifinita poᵃ: qꝛ totū illud peda-
le in ifiᵐ tūc debit de forᵉ ſicˀ nūc hꝫ totū cōpoᵐ illud ifiᵐ.
Sit igit̃ vnū aliud pedale in caſu p̄cedente. a. ⁊ ſeqt̃ ꝙ in
fine. a. ⁊. b. erūt eque itenᵃ: qꝛ vtrūqꝫ erit ifinite iten ſum: et
erūt eq̄lia: ⁊ vnū. ſ. b. erit ifinite poᵉ: ⁊ aliud erit ſolū finite
3ª ɔclo poᵉ: vt argᵐ eſt. ſeqt̃ ḡ ɔclo. ¶ Itē ſeqt̃ ꝙ. a. eſt ifinite cali-
dius. b. ⁊ iſta ſunt eq̄lis q̄ntitatis: ⁊ tñ. a. eſt minoris poᵉ q̄
b. in q̄cūqꝫ ꝓporᵉ volueris: qꝛ ſit. a. ſicˀ ponit̃ in fine caſus
ɔnis pᵉ: ⁊ ſit. b. vnū vnifor' calidū finite itenᵐ maioris poᵉ
q̄. a. qđ poſſibile eſt: eo ꝙ ɔtingit accipe aliqđ vnifor' cali-
duꝫ finite itenᵐ alicuiꝰ poᵉ ⁊ aliqđ in duplo maioris poᵉ: ⁊
ſic in infiᵐ: ponat̃ tūc ꝙ. b. ſit maioris q̄ntitatis q̄ pedalis.
Et ꝙ illud ɔdēſet̃ ad pedale ſine oi alia variatione facta
in eo: ⁊ ſeqt̃ ꝙ. b. tūc erit ſoluꝫ finite itenᵐ: qꝛ ad nullū pū-
ctū erit alia caliᵗᵃˢ q̄ nūc eſt ibi: nec in aliq̄ p̄te eius: eo ꝙ
ſolū erit ɔdēſatio: ⁊. b. tūc erit pedalis q̄ntitatis ſicut. a. ⁊. a.
tūc erit ifinite calᵐ: ⁊. b. ſolū finite itenᵉ calidū: ⁊ tñ tūc. a.
nō erit tāte poᵉ ſicut. b. eo ꝙ. b. tūc erit ſicut nunc eſt iuxta
4ª ɔclo pōnē. ¶ Itē ſeqt̃ ꝙ. a. ⁊. b. ſunt oīno ſiīa itēſiue ⁊ extēſi-
ue: ⁊. a. itēdet̃ in infiᵐ: ⁊. b. remittet̃ in ifinituꝫ manētibꝰ il-
lis ɔtiᵉ eq̄lis q̄ntitatis: ⁊ tñ iſta duo ɔtiᵉ manebūt equalis
poᵉ. ponat̃ eiꝫ de. a. vt ponit̃ in caſu pᵉ: ⁊ ſit. b. oīno ſiīe. a. in
pnᵒ: ⁊ ſit calitas vtriuſqꝫ grā argᵗⁱ vt 4ᶜⁱ: tūc iſta caliditas
ɔtinet duas medieᵗᵉˢ itēſiue: quaꝝ vtraqꝫ eſt v t. z. ꝑ totuꝫ.
ponat̃ igit̃ per imaginaᵒᵉꝫ ꝙ vna illaꝝ medieᵗᵘᵐ que cōti-
net. ſ. z. extēdat̃ in medieᵗᵉ. b. ſicˀ nūc extēdit̃ in toto: ⁊ alia
medietas illiꝰ calitatis extēdat̃ in alia medieᵗᵉ. b. ⁊ ſeqt̃ ꝙ
tūc totū erit itenᵐ vt duo: eo ꝙ ad oēm pūctū erit itenᵉ, vt
duo. Iterum igit̃ diuidat̃ iſta medietas. ſ. vt duo in duas
medieᵗᵉˢ itēſiue eq̄les ſicut eſt vna medietas: quaꝝ vnius
vna medietas extendat̃ in vna medieᵗᵉ. b. ⁊ alia in alia ſicˀ
facta pᵃ extenᵉ extēdebat̃ tūc ꝑ totū. ⁊ ſeqt̃ ꝙ ad oēm pū-
ctū. b. tūc erit itenᵉ vt vnū ſolū: vt manifᵉ pꝫ. Iterū ḡ ſi fiat
diuiſio illiꝰ calitatis: ⁊ in duas medieᵗᵉˢ que extēdant̃ per
medieᵗᵉˢ. b. ⁊ ſic in ifinitū. ⁊ pꝫ ꝙ. b. in ifiᵐ remittet̃: ⁊. a. in-
tēdet̃ in ifiᵐ vt p̄us: tñ illa ɔtinue manebūt eq̄lis poᵉ ſicut
nūc ſunt: eo ꝙ neutrū eoꝝ aliqđ deꝑdet de forᵃ: nec acqui-
5ª ɔclo ret. ¶ Itē ſeqt̃ ꝙ. a. ⁊. b. ſunt duo eque itenᵉ ꝑ totuꝫ: quoꝝ
vnū eſt ifinite maioris quātitatis q̄ reliquū: ⁊ tñ iſta ſunt
eq̄lis potētie. ſint eniꝫ. a. ⁊. b. oīno ſiīa: ⁊ diuidat̃. a. in p̄tes
ꝓporˡᵉˢ: ⁊ ponat̃ ꝙ q̄libet pars ꝓporˡⁱˢ rarefiat ad eq̄lita-
tē p̄me p̄tis ꝓporˡⁱˢ deductis alijs mutationibꝰ in eo: ita. ſ.
ꝙ ad oēm pūctū maneat tāta itenᵉ ſicˀ nūc eſt ibi: ⁊ nō fiat
alia mutatio in. b. ⁊ ſit nūc finis tp̄is: ⁊ ſeqt̃ ꝙ. a. per totuꝫ
eſt eque itenᵐ cū. b. ſicut fuit ante eiꝰ maiorationēꝫ: ⁊ tñ iſta
ſunt eq̄lis poᵉ: eo ꝙ neutrū iſtoꝝ acqrit vel deꝑdit de forᵃ
vel de mā: ⁊ tñ. a. eſt ifinite q̄ntitatis: ⁊. b. ſolū finite. ¶ Cō-
tra iſtā ɔnē argᵗ ſic. Si enim. a. ſit ifinitū ⁊ vniforme aliq̄
gradu: ſeqt̃ ꝙ totū. a. eſt ifinite maioris potētie q̄ vna eiꝰ
pars finita: ⁊ per ɔñs totū erit ifinite poᵉ. ¶ Cōſilr̃ argui-
tur ɔtra ɔnēꝫ 3ᵃᵐ. Si eiꝫ. a. ſit in ifinitū calidius. b. ⁊ eq̄lis
q̄ntitatis: ſeqt̃ ꝙ totū erit maioris potētie q̄. b. qm̄ ſi eēnt
eque itenᵉ nō erit maior ratio q̄re. a. erit minoris potentie
q̄. b. qm̄ eadē rōne. b. erit potētie minoris q̄. a. igit̃ ſi. a. ſit
ifinitū itēſius. b. ⁊ eq̄lis q̄ntitatis cuꝫ iſto: ſeqt̃ ꝙ. a. erit ma-
ioris potētie q̄. b. ⁊ nō minoris. igit̃ ſeqt̃ ɔnēꝫ eē falſam.
6ª ɔclo ¶ Itē ex hac pōne ſeqt̃ ꝙ. a. eſt ifinitū q̄ntitatiue ꝑ totuꝫ:
⁊ ifinite itenᵉ calidū: ⁊ tñ totū eſt ſolū potētie finite: que cō-
cluſio apparet ipoſſi. qꝛ ſi eēt ſolū q̄ntitatis finite ⁊ eēt ifi-
nite itēſum alicuiꝰ potētie eēt finite: igit̃ ſi ifinite q̄ntitatis

nectio erit ifinite potētie: qꝛ ifinitū maioris potētie erit q̄
ſi eēt ſolū finite q̄ntitatis. ¶ Hec tñ ɔcluſio argui ſic. Sit
a. ifinite itenᵐ per totū: cuiꝰ poᵃ ſit ſolū finita: ⁊ ſit totū pe-
dalis q̄ntitatis ſicut erit in fine in caſu ɔnis p̄me: ⁊ diuida-
tur illud. a. in p̄tes ꝓportionales: ⁊ rarefiat q̄libet pars ꝓ-
portionalis poſt pᵃᵐ ad eq̄litatē p̄me deductis alijs muta-
tionibꝰ: ita ꝙ ad oēm pūctū maneat eadē intēſio que nūc
eſt ad illū ⁊ nō acqrat̃ forᵃ: ⁊ ſequit̃ ꝙ totū erit infinitū in
fine ⁊c. ⁊ nihil acqret de poᵃ: qꝛ nihil de forᵃ: igit̃ ſeqt̃ cō-
cluſio. ¶ Itē ſequit̃ ꝙ aliqđ eſt finitū ſolū finite itenᵐ tñ 7ª ɔclo
ifinite potētie: qꝛ det̃ vnū ifinitū vniforme: ita ꝙ in quoli-
bet pedali illius ſit equalr̃ de forᵃ ⁊ diminuat̃ zᵐ pedale ꝑ
cōdēſationē deductis alijs mutationibꝰ q̄uſqꝫ fuerit in du-
plo minus q̄ eſt pᵐ pedale: ⁊ fiat 3ᵐ in duplo minus zᵒ per
cōdēſationē: ⁊ ſic in ifinitū: ita ꝙ in nullo illoꝝ pedaliū ſit
deꝑditio forme: ⁊ ſeqt̃ ꝙ totū nūc ifinitū ɔtinet de forᵃ: vt
pꝫ: ⁊ nō erit deꝑditio forme: igit̃ in fine in infinitū de forᵃ
ɔtinebit: ⁊ per ɔñs tūc totū erit infinite potētie: ⁊ erit ſolū
finite q̄ntitatis: qꝛ bipedale vt notū eſt: ⁊ erit ſolū finite ca-
lidū ſicut in p̄. igit̃ ſeqt̃ ɔcluſio. ¶ Itē ſeqt̃ ꝙ. a. per totuꝫ 8ª ɔclo
eſt ifinite itēſius. b. ⁊ in infinitū maioris q̄ntitatis q̄. b. ⁊ tñ
b. eſt ifinite maioris potētie q̄. a. ſit eiꝫ. a. ifinitū ifinite itē-
ſum: vt ponit̃ in ɔne penultima ſolū finite poᵉ: ⁊ ſit. b. fini-
tū finite itenᵐ ſolū infinite tñ potētie: vt ponit̃ in ɔne p̄xi-
ma eē poſſibile. ⁊ ſeqt̃ ɔcluſio maᵗᵉ. ¶ Itē ſequit̃ ꝙ. a. eſt 9ª ɔclo
ifinite calidū per totū: ⁊. b. ſolū finite frigidū eq̄lis q̄ntita-
tis cuꝫ. a. ꝙ. b. ſufficit corrūpe ipm̄. a. ſtat eiꝫ vt argutū eſt
ꝙ. a. ſit ifinite calidū quātūcūqꝫ modice poᵉ volueris: ⁊. b.
finite frigidū quātumcūqꝫ magne potētie volueris: dum
tamen ſit finitum ⁊ ſolū finite intenſum.

Pro iſto igit̃ di vt p̄us: ꝙ poᵃ attēdit̃ vniᵗᵉʳ penes
multiᵗᵘᵈⁱⁿᵉᵐ forme exiſtētis in mā: cum oēs
actiones ſint a forᵃ ⁊ nō a q̄ntitate: nec a mā vt cogſci pōt
de facto qñ plus eſt de forᵃ in vno q̄ in alio. ⁊ h̄ eſt quādo
plus eſt de mā in qua hꝫ forma inducet̃ in vno q̄ in alio:
vt p̄dictū eſt: eo ꝙ ideꝫ agēs plus ꝓducit de forᵃ vbi plus
inuenit de mā: qꝛ aliter difficile vel ipoſſibile foret pone-
re cām q̄re ferrū ignitū fortiꝰ ageret q̄ quātites eq̄lis flā-
me vel mā rarior: vt tāgebat̃ p̄us. ¶ Et etiaꝫ eſt aduertē-
dū ꝙ tāte forme vel ita multe correſpōdet tāta itenᵉ ⁊ tanta
extenᵒ ſolū per accñs: ita ꝙ ſtat formalr̃ ex caˢᵉ nūc exiſte
in q̄litate aliqua fieri q̄litatē ifinite itēſam ſiue ifinite re-
miſſam: ⁊ ſilr̃ oi gradu eque itēſam. ⁊ h̄ in quacūqꝫ q̄ntita-
te ſiue finita ſiue ifinita ꝑ diuerſas extēſiones ſuaꝝ p̄tiuꝫ
adinuicē: vt in caſibꝰ poſitis illaꝝ ɔnuꝫ p̄dictaꝝ ſatis pꝫ:
ita ꝙ eadē forᵃ ſtat formalr̃ cū maiori itenᵉ ⁊ minori: ⁊ cū
maiori extenᵉ ⁊ minori: ⁊ ſic dato ꝙ certa forᵃ que nūc eſt
in certa q̄ntitate eēt ꝑ imaginationē ad pūctuꝫ: ſic ꝙ reſul-
taret q̄litas finite intēſa ⁊ ifinite modica ſeu indiuiſibilis
q̄ntitatiue: qꝛ tūc nō poſſet eē diſtinctio quo ad p̄tes q̄ntita-
tiuas tāte poᵉ: tunc eēt totū ſicut nūc eſt. ¶ Et ad ɔnes re-
ductas ɔcedant̃ oēs de imaginatiōe. ¶ Et ad arᵐ ɔtra pᵃᵐ
ɔnē di ꝙ eſt maior ratio ⁊c. qꝛ vnū finitū calidū infiᵐ pōt
ɔtinere de forᵃ ⁊ tale eēt ifinite poᵉ: ⁊ ifinite calᵐ pōt ſolū
finite ɔtinere de forᵃ: ⁊ ſic illud pōt ſolū eē poᵉ finite: vt p-
babat̃ in ɔne pᵃ ⁊ zᵃ. ¶ Et tūc ad zᵐ argᵐ ɔtra zᵃᵐ ɔnem
negat̃ ɔñtia. a. ⁊. b. ſunt eque intēſa ꝑ totū ⁊ eq̄lia: igit̃ ſunt
eq̄lis poᵉ: qꝛ in caſu vnuꝫ multū plus ɔtinet de forᵃ q̄ re-
liquū: vt deductū eſt p̄us. ¶ Et ſic videt̃ ad argᵐ factū cō-
tra 5ᵃᵐ ɔnēꝫ. negat̃ ɔñtia qñ ɔcludit̃ ꝙ totū eſt ifinite ma-
ioris potētie q̄ aliq̄ eius pars finita: ⁊ per ɔñs erit ifinite
potētie: qñ. ſ. totū eſt ifinitū. Et cā eſt: qꝛ vt ibi deducit̃ to-
tū ſolū finitū ɔtinet de forᵃ. ¶ Et ſic ad argᵐ ɔtra 3ᵃᵐ ɔnē
dī ꝙ lꝫ. a. ⁊. b. ſint inequę itēſa ⁊ eq̄lia: eſt tñ ratio q̄re vnū
eſt multū maioris poᵉ q̄ reliquū: qꝛ multo plus ɔtinet de

forma: vt deductū eſt. ¶ Et ſic ad argᵐ ↄtra 6ᵐ ↄ̄nēȝ ne-
gat̃ ↄ̄ria ꝙ lȝ eēt q̄ntitatis finite ⁊ eēt īfinite itēſum in ca.
ſu ſtaret ipm eē potēte finite ſolū: ⁊ ſic ſtat īfinitū eē inſi-
nite itēn eadē form arū tn̄ neutrū ſit alio maioris poten
tie. ¶ Et ſic ad 7ᵐ ↄ̄nēȝ ↄcedit̃ ꝙ lȝ ſit finite calidū ⁊ fi-
nite q̄ntitatis īfinitū ↄtinet de forᵃ per deductiōeȝ priores.
¶ Et ſic etiā ſeq̄t̃ ⁊ ↄcedit̃ 8ᵃ ↄcluſio ꝙ lȝ.a.ſit īfinite itē
ſus.b.ſtat.b.plus de forma cōtinere q̄̃.a.vt p̄us patuit: ⁊
ſic ſoluunt̃ oīa. ¶ Et ſilr 9ᵃ cōcluſio: ⁊ per iſta multe con-
cluſiones apparētes ↄ̄dictioneȝ includere p̄nt obiçi que
oēs diſſolui poſſunt per predicta ⁊c̃.

¶ Tractatus 9ᵘˢ De difficultate actionis.

SEquitur ingrere penes qd habet attē-
dı difficultas actionis: varie
p° pō ſunt pōnes. Una.n.poſitio ponit ꝙ attēdit̃ pe-
nes ꝓportionē maioris inequalitatis: ita ꝙ illud
qȯ a maiori ꝓporᵉ agit maiorē difficultatē fa-
2ᵃ pō cit. ¶ Et alia poſitio ponit ꝙ attēdit̃ penes ꝓportionē mi-
noris inequalitatis: ſic ꝙ illud qȯ agit a ꝓportiōe minori
maiorē difficultatē facit: q2 illud magis fatigat̃ in agēdo.
3ᵃ pō ¶ Sed 3ᵃ poſitio ponit ꝙ attēdit̃ penes poᵃᵐ illaȝ actio-
nem ꝓducēteȝ: ita ꝙ ſemꝑ maior potētia agēs ſm vltimū
ſui maiorem difficultatem ꝓducit.

ↄtra pᵐ **Contra** pᵐ pōneȝ arguit̃ ſic. data iſta ſequit̃ ꝙ oēs
potentie poſſent eq̄les agere difficultates ⁊
actiones. oēs.n.potētie ex eq̄libᵘ ꝓportioᵇᵘˢ p̄nt agere. ſed
ↄ̄ns eſt falſuȝ: q2 qcq̄d pōt poᵃ minor facere, illud idē pōt
maior facere: ⁊ aliq̄d vltra. aliter eniȝ nō videt̃ qualr̄ vna
2° poᵃ alia eēt maior niſi in plus poſſet facere. ¶ Itē ſequit̃
ꝙ maiorata poᵃ agēte cōtinue ſm vltᵐ ſue potētie remit-
tit̃ difficultas actionis ad nō gradū. maioret̃.n.poᵃ ↄtinue
agēs ſm vltᵐ cuius reſiᵃ creſcat ad eq̄litatē ſue potētie. et
ſeq̄t̃ ꝙ ex īfinita modica ꝓportione aget aliq̄n: eo ꝙ reſiᵃ
maiorat̃ aliq̄n ad eq̄litateȝ potētie agētis: ⁊ per ↄ̄ns īfini-
te modice difficultatis fiet eius actio. ſȝ ↄ̄ns eſt falſum: q2
ext̄ ↄtinue aget ſm vltimuȝ ſue potētie: ⁊ illud in qȯ aget
ſemꝑ erit maioris reſiᵉ ⁊ maioris: ⁊ ipm ↄtinue erit maio-
ris potētie ⁊ maioris cōtinue: igit̃ difficultas ſue actionis
ↄtinue maiorabit̃ ⁊ nō minorabit̃. ¶ Iteȝ ſeq̄t̃ ꝙ remiſ-
3° ſo aliq̄ motu alicuiᵘ ad nō gradum minorabit̃ difficultas
in īfinitū. ↄ̄ns falſum: q2 moueat̃.a.cū aliqua reſiᵃ ſicut le-
uādo aliqȯ graue: cuiᵘ grauitas ↄtinue maioret̃: ita ꝙ mo-
tus.a.ↄtinue remittat̃ ad nō gradū: tūc illud graue ↄtinue
erit maioris pōderis: ⁊ illud graue ↄtinue plus itēdet̃ mo-
ueri v̄ſus deorſum: ⁊.a.ↄtinue erit maioris potētie ⁊ maio-
ris: igit̃ cōtinue poᵃ.a.faciet maiorē difficultatē q̄̃ faceret
ſi nō itēderet̃ eius grauitas: eo ꝙ leuare ipm ↄtiᵉ erit ma-
ioris difficultatis ⁊ maioris: igit̃ difficultas acta ab.a.non
minorabit̃ in īfinitū. ipm.n.ↄtinue faciet maiorē difficul-
4° tatē q̄̃ poᵃ illiᵘ grauitatis ſufficiet ipm īpedire. ¶ Iteȝ ſit
a.aliqȯ graue: ⁊ ſeq̄t̃ ꝙ aliqȯ eſt mouēs qȯ nō pōt leuare
a.ꝙ ſit.b.⁊ moueat.b.c.graue: ⁊ ſeq̄t̃ ꝙ quodcūq̄ſ ſufficit
mouere.a.maioreȝ difficultatem faciet q̄̃.b.quod mouet
c.⁊ tamen ex infinita modica ꝓportione poteſt agere ali-
quod mouens.a.igitur poſitio falſa.

ↄtra 2ᵐ **Nunc vo** arguit̃ ↄtra 2ᵃᵐ pōnē: q2 ex iᵃ ſeq̄t̃ ꝙ oēs
poᵉ eq̄lem difficultatē ſufficiūt agere: ga
oēs ex eq̄li ꝓporᵉ ſufficiūt agere. ↄ̄ns eſt falſum: vt dedu-
ctū eſt prius. ¶ Itē ſeq̄t̃ ꝙ ex maioratione poᵉ agētis ſm
2 vltᵐ ↄtinue minorabit̃ difficultas ſue actionis: eo ꝙ maio-
rata poᵃ ſtāte reſiᵃ maiorabit̃ ꝓportio īter poᵃᵐ ⁊ reſiᵃᵐ: ſed
ↄ̄ns eſt falſum. ext̄.n.illa poᵃ ↄtinue maiorabit̃ det̃ pars
ſue poᵉ eq̄lis ↄtinue poᵉ habite p̄us: ⁊ ſeq̄t̃ ꝙ illa pars ↄti-
nue tātā actionē ⁊ difficultatē ſufficiat agere ſicut nūc ſuf-
ficit totū ⁊ eↄ̄x ↄtiᵉ maiorē difficultatē ſufficit totū agere

q̄̃ pars aliq̄ eiuſdē: eo ꝙ qcq̄d pōt parſ illud pōt totū: igit̃
totū ↄtinue maiorē ⁊ maiorem difficultatē aget maiorata
ſua poᵃ ⁊ ipſo agēte ſm vltᵐ. ¶ Itē tāta eſt difficultas po- 3
tētie vt 4ᵒʳ moᵉ reſiſtētiā vt duo gradu motᵘ ꝓueniēte ex
ꝓporᵉ dupla ſicᵘ eſt eadē mouere reſiſtētiā vt vnū gᵐ motᵘ
ꝓueniēte a ꝓporᵉ q̄druplā: ⁊ ſi ſic ſiue agat a ꝓporᵉ maio-
ri ſiue minori: dū tn̄ ſm vltᵐ ſue poᵉ moᵉ eq̄lē difficultatē
faciet. ¶ Itē ſic mouere a ꝓporᵉ dupla cū reſiᵃ vt duo eſt 4
ſimplr̄ maioris difficultatis q̄̃ eſt mouere gᵐ eodē ⁊ eadē
ꝓporᵉ.ſ.dupla cū reſiſtētia vt vnū: eo ꝙ aliq̄d pōt moue-
re gᵐ motᵘ vt vnū ꝓueniētis a ꝓporᵉ dupla cū reſiſtētia vt
vnū qȯ nō pōt mouere cū reſiᵃ vt 2ᵃ agit̃ ex eadē ꝓportiōe
q̄nq̄ veniet difficultates ineq̄les. ¶ Itē ſequit̃ ꝙ oīs poᵃ 5
īfinitā difficultatē pōt facere: q2 ex īfiᵗᵉ modica ꝓporᵉ pōt
agere. ¶ Itē ſi poᵃ mouēs aliq̄ ſic alterās vel aliq̄ alio mo- 6
tu mouēs que nō debilitet̃ in agēdo: vt p̄us argutuȝ eſt eē
verū: ⁊ ſeq̄t̃ ꝙ talis nō grauet̃ nec debilitet̃ in agēdo: igit̃
nō minorē difficultatē facit iᵃ poᵃ ſiue moueat a ꝓporᵉ ma-
iori ſiue minori. ¶ Itē data pōne ſeq̄t̃ ꝙ oē agēs infinitā 7
difficultatē facit: q2 in oī motu includit̃ motᵘ ſubduplus ⁊
ſubq̄druplus: ⁊ ſic in īfiᵐ: ſicᵘ in omni ꝓporᵉ includit̃ ꝓpor-
tio ſubdupla ⁊ ſubq̄drupla: ⁊ ſic in īfiᵐ: ſicᵘ ꝓportio q̄dru-
pla cōponit̃ ex duabᵘ duplis: igit̃ omne agēs ex ꝓporᵉ aliq̄
ageret a mediᵉᵗᵉ illiᵘ ꝓporᵉᵐ: igit̃ omne agēs cū difficulta-
te aliq̄ agit ⁊ cuȝ ſubdupla. ¶ Uel idē eſt argᵐ vbi aliq̄d
agit in aliquid in quo eius actio terminat̃ ad non graduȝ
ꝙ.ſ.infinitam difficultatem producet.

Ideo ponit̃ 3ᵃ poſitio ponēs ꝙ difficultas vlr̄ at- 3ᵃ pō
tēdit̃ penes poᵃᵐ ſm vltᵐ agētē: ita ꝙ
ꝓporᵉ ſicᵘ vna poᵃ agēs ſm vltᵐ eſt alia agēte ſm vltᵐ ma-
ioris poᵉ: ita maiorē ꝓducit difficultatē. Id p̄ȝ per Cōmē.
p̄ celi.cō.16°: vbi dicit ꝙ cū voluerimus diffiᵉ poᵃᵐ alicuiᵘ
ꝙ pōt mouere ꝑ.10.leugas nō dicimus ꝙ hȝ poᵃᵐ mouē-
di ꝑ minus q̄̃ ꝑ.10.⁊ cū iᵒ dicit Cōmē.ꝙ poᵃ ꝑ finē ſui actᵘ
diffinit̃: nō ꝑ id qȯ eſt ante finē: ext̄ īnuit̃ poᵃᵐ terminari
ꝑ maximā actionē in quā pōt. ¶ Pro quo eſt aduertēdū Notāᵈᵘᵐ
ꝙ vbicūq̄ aliq̄ poᵃ ſm vltᵐ ſue poᵉ agit ſiue cū reſiᵃ maio- punctū
ri ſiue minori, ſtāte hꝫ applicatione cū alus paribᵘ, ſemꝑ
eq̄leȝ ꝓducit difficultatē ſicᵘ data poᵃ vt 4ᵒʳ: que cū reſiſtē-
tia aliq̄ moueret a ꝓporᵉ dupla tātā ꝑciſe aget difficulta-
tē q̄̃tā ageret motū in duplo velociori cū reſiᵃ ſubduplā: ⁊
ſic q̄n maior poᵃ ſm vltᵐ ſui agit ab eq̄li ꝓporᵉ ſicᵘ minor
maior poᵃ maiorē ꝓducit difficultatē: ſicut etiā mouet cuȝ
reſiᵃ maiori maiorē poᵃᵐ applicādo. vna tn̄ difficultas pōt
dici tanta vni poᵉ ſicut alia alteri poᵉ: ⁊ ſic ſaluat̃ cōis mo-
dus loq̄ndi: vbi dī ꝙ tāte difficulᵗᵃᵗⁱˢ eſt vni hoī debili por-
tare vnū lapidē paruū: ſicᵘ hoī forti portare lapidē magᵐ:
qȯ ſolū reſpectiue itellr̄.i.ꝙ iᵃ difficultas quā facit ille de-
bilis eſt tātū ſibi ꝓportionabilis ſicᵘ alia ē alteri: q2 vtraq̄ſ
difficultas poᵉ agētiſ ſi ſm vltᵐ agat eſt eq̄lis: ſic ēt leuare
eūdē lapidē eſt maioris difficulᵗᵃᵗⁱˢ reᵗᵘ poᵉ minoris q̄̃ maio-
ris: nō tn̄ itelligēdo ꝙ poᵃ debilis leuādo p̄uū lapidē tāta
difficulᵗᵉᵐ abſolute facit ſicᵘ poᵃ maior. ¶ Cōtra qȯ tn̄ for-
te arᵍᵘ: ſi leuare paruū lapidē foret ſimplr̄ minoris difficul-
tatis q̄̃ leuare magnū: igit̃ reᵗᵘ alicuiᵘ poᵉ. ↄ̄ns vī falſuȝ: ga
in q̄ocūq̄ſ agit idē agēs ſm vltᵐ ſui eq̄lē difficultatē facit.
¶ Pro iᵒ dī ↄcedēdo ↄ̄ns ⁊ ↄ̄ntiā: q2 data poᵃ que vtrūq̄ſ
leuare pōt minorē poᵃᵐ applicādo pōt leuare p̄uū lapidē
q̄̃ magnū: ideo reᵗᵘ illius minor eſt difficultas leuare illuȝ
paruū q̄̃ illū magnū: q2 eſt minus ſibi ꝓportionabile: ⁊ ēt
ſimplr̄ eſt difficulᵗᵃᵗⁱˢ minoris: q2 minori poᵃ pōt leuari illȯ
minᵘ graue q̄̃ aliud magis graue. ¶ Eſt ēt vlteriᵘ aduer- 2ᵐ
tēdū ꝙ dato medio vniforᵉ reſiſtēte eſt dare maximā dif-
ficultatē que in illo medio fieri nō pōt: ⁊ h̄ ꝑ ſe ita.ſ.ꝙ il-
la difficultas nō ſit pars alteriᵘ. eſt.n.dare maximā poᵃᵐ
que in

que in illo medio mouere nō pōt ſic poª eq̄lis illi reſiª: ⁊ oī potētie ſibi eq̄lis difficultas corrn̄det: igiť eſt dare maximā difficultatē que nō pōt fieri in iſto medio per ſe. ſ. illa difficultas que corrn̄det poª illi reſiſtētie eq̄li. ℂ Jtē etiā eſt vbi meᵐ eſt difforme nō terminatū alicubi ad nō gᵐ reſiſtētie: qa capiať gradus ad quē terminať ſua reſiª ſm extremū remiſſius: vel vbi eſt minima reſiª. ⁊ certū ē ꝙ poª eq̄lis illi reſiſtētie eſt maxima que in illo medio agere nō pōt: ⁊ p ↄñs difficultas illi poª corrn̄dēs eſt maxīa que in illo medio fieri nō pōt p ſe: vbi tn̄ ad nō gᵐ totū meᵐ vel pars medij eēt terminata: oīs difficultas in illo medio pōt fieri: q̄ntūcūq̧ .n. modica poª fuerit aliq̄ ipſa in aliq̄ pte illiꝰ motū incipe ſufficiet ⁊ mouere: eo ꝙ alicubi ifiᵐ modicū reſiſtit: ⁊ oīs poª q̄ntūcūq̧ fuerit magna in illud mediū pōt agere. in q̄dcūq̧ .n. aliqd pōt agere eē maioris poª cōſilr in illud idez meᵐ ſufficiet agere ſm ſui vltᵐ: vt ↄſtat. ⁊ cuilibet poª ſm vltᵐ agēti certa difficultas corrn̄det: igiť oī difficultate data pōt maior fieri difficultas in illo meº ⁊ oī minor ſilr: qa meᵐ terminať ad nō gᵐ: igiť ſeqť itētū.

3ᵐ ℂ Jtē nōnᵐ ꝙ latitudo difficultatꝭ eſt ifinita v̄ſus gᵐ ifiᵐ: ⁊ v̄ſus nō gᵐ ſolū finita ⁊ ex̄ latitudo facilitatis eſt ifinita v̄ſus nō gᵐ: ⁊ eſt finita ſolū v̄ſus gᵐ ifiᵐ. B ſic argᵉ: qa ſi nō ↄtra: latitudo poª eſt ifinita v̄ſus gᵐ ifiᵐ: ⁊ cuilibet gradui poª certa difficultas in gº ſibi eq̄lis corrn̄det: q2 aliter ſeqtur ꝙ aliq̄ poª ſufficit plus agere q̄ȝ hȝ poªˢ ad agendū: ſi difficultas fuerit poª maior: vel ſeqť ꝙ poª nō pōt tātū facere ſic hȝ poªˢ ad agēdū: ſi. ſ. difficultas illi poª corrn̄dens ſit ea in gº remiſſior: q̄rū vtrūq̧ eſt falſum: igiť difficultas corrn̄dēs alicui poª illi nec̄io corrn̄debit ſm itēſionez. ſ. in gº: q. ſ. ↄtinue equalr diſtabit a nō gº difficultatis ſicut poª a nō gº poª: igiť ſi poª v̄ſus gᵐ ifiᵐ eſt ifinita: ſeqť ꝙ latitudo difficultatis v̄ſus gᵐ ifiᵐ erit ifinita: ⁊ ſic latitudo poª v̄ſus nō gᵐ poª ſit ſolū finita: ⁊ facilitas penes paruitatē potētie attēdiť: ſeqť ꝙ iter gᵐ quēcūq̧ facilitatis ⁊ gᵐ ifiᵐ qui nō pōt poni alius a nō gº difficultatis eſt latitudo ſolū finita: qđ fuit pbādū. ℂ Ex iſtis ſeqť ꝙ duplaº difficultatꝫ ſeqť duplationē agentis ſm vltᵐ ⁊ nō vlr duplationē motꝰ: eo ꝙ difficultas ſemp erit eq̄lis in gº poª illi ſm vltᵐ agēti. vbi aūt poª nō agit ſm vltᵐ ſui vt pducēdo motū aliquē cum aliq̄ reſiª: tūc ↄtingit recipe poªˢ que ↄtª ſm vltᵐ agendo tātū motū cum eadē reſiſtentia pduceret: ⁊ ſic difficultas actionis acta ab illa maiori poª attēdiť penes poªˢ alteriꝰ que. ſ. illā ſufficit pducere in agēdo ſm vltᵐ: ⁊ ſic dī ꝙ idē

Actio et difficultas ſunt vnū et idem. eſt actio ⁊ difficultas: ⁊ actio ſic dī maior: q2 a maiori poª ſm vltᵐ agente pduciť: tn̄ velocitas illiꝰ actionis: vlr ſeqť pporꝰˢ poª motiue ſup poªˢ reſiſtitiua: ita ꝙ actio eq̄lis aliq̄n pōt eē magis velox: ⁊ aliq̄n minꝰ velox ſic eq̄lis caliditas vel alia forª pōt eē magis intēſa vel minus iuxta diuerſam extēſionē: vt pꝰus dcm̄ eſt. vnde poª maximā eius actionē vel difficultatē pducit q̄n ſm vltimū ſue potentie agit ſiue agat cum reſiſtētia maiori ſiue minori.

3 3ᵐ poſitionem. Cōtra 3ᵐ pōnē arᵉ ſic. Difficultas actiōis duplabiť nō duplata poª agētis vbi eſt actio ſm vltimū: igiť nō attēdiť penes poªˢ ſimplr ⁊c. ↄñia iuxta pōnē illā ſatis pȝ. argᵉ añs ſic. Sint. a. ⁊. b. duo mouētia eq̄lia in. c. medio vniformi: vnū. ſ. in vna medieᵗᵉ. c. ⁊ aliud in alia medieᵗᵉ a pporᵉ ſexqaltera ptrāſiēs medietatē. c. i qua mouet in hora: tūc ſic. a. b. in hora faciēt actiones eq̄les ⁊ difficultates eq̄les: igiť difficultas cōpoſita ex illis duabꝰ erit dupla ad vtrāq̧ illaꝝ p ſe: ⁊ illa difficultas nō eſt niſi ptrāſitº. c. in hora: q2 nulla eſt actio cōpoſita ex iſtis duabꝰ actiōibꝰ niſi illa que eſt ptrāſitº. c. in hora: igiť in duplo maioris difficultatis eſt ptrāſire. c. in hora q̄ȝ ptrāſire vnā medieᵗᵃᵗᵉ. c. in hora: ⁊ ad ptrāſitionē. c. in hora reqriť motꝰ duplus ad motū ptrāſitionis medieᵗᵃᵗᵉ. c. in hora: igiť ad duplationē motꝰ. a. vel. b. ſeqť duplaº diffiᵗⁱˢ vel actionis in. c. medio: ⁊ ad duplationē motꝰ. a. in. c. nō ſeqť duplaº ſue potētie vt cōſtat: qa ſi eiꝰ poª maioreť ad ſuū ſexqalterꝝ motꝰ eiꝰ duplabiť: igiť poſitio falſa. ℂ Jtē arᵉ ꝙ ptrāſire. c. in hora eſt ifinite 2º difficultatis. vel ꝙ ad remiſſionez motꝰ ad nō gᵐ in. c. medio remittiť actio ⁊ difficultas ad nō g̃duz illiꝰ diſiūctiue vtraq̧ pars repugnat pōni: qa poª finita ſolū totū. c. in hora ſufficiet ptrāſire. ſ. poª ſexqaltera ad. a. vt notū eſt. Silr lȝ motꝰ ad nō gᵐ remitteť in. c. ſtāte reſiſtētia: illa poª maiorē difficultatē ſufficit pducē q̄ȝ poª illi reſiſtētie equalis ſufficeret pducē. Patet igiť illā ↄnez illi pōni repugnare. ℂ Et ꝙ illa ↄclō ſequať ex pōne argᵉ ſic. Capianť poª 4ᵒʳ eq̄les: q̄rū q̄libet ſufficit mō ſm vltᵐ ſui ptrāſire 4ᵃᵐ ptez in. c. hora: ⁊ ſeqť ꝙ oēs ille 4ᵒʳ in q̄druplo faciēt maiorez difficultatez q̄ȝ vna illaꝝ p ſe: eo ꝙ ſue difficulᵗᵃᵗᵉˢ ſunt eq̄les ⁊ poª ſilr. Uel ſic. Jlle poª ſunt eq̄les ſm vltᵐ agentes: igiť faciūt tātā difficultatē ſic nūc ſufficit poª q̄drupla ad q̄lalibet illaꝝ: ⁊ oēs ille nō faciūt aliq̄ȝ difficultatē niſi illā que eſt ptrāſire. c. in hora: igiť in q̄druº maiorē difficultatē faciūt. a. b. ↄtiᵉ in hora que totū. c. ptrāſibūt q̄ȝ vna illaꝝ 4ᵒʳ: ⁊ ſic ſi capianť octo potētie: q̄ruz q̄libet ſufficit ptrāſire ſolā 8ᵃᵐ ptē in hora mouēdo ſm vltimū in hora: iſte octo facerēt in octuplo maiorē difficultatē q̄ȝ vna illaꝝ p ſe: ⁊ ſic in ifinituz. Silr ſi eēnt. 16. q̄rū q̄libet ptrāſiret ſolū 16ᵃᵐ ptē illiꝰ ille facerēt in decimoſexcuplo maiorē difficultatē q̄ȝ vna illarū: ⁊ ſic in infiᵐ: igiť difficultas tota que eſt acta ab. a. ⁊. b. que. ſ. eſt ptrāſitio. c. in hora eſt q̄drupla ad difficultatem actā ab vna illarū poªᵗᵘᵐ vt 4ᵒʳ: ⁊ octupla ad difficultatē actā ab vna illaꝝ octo: ⁊ ſic in ifiᵐ: igiť in infiᵐ minor eſt difficultas ab aliqua illaꝝ acta difficultate acta ab. a. ⁊. b. ⁊ ſic in ifiᵐ: modica erit aliq̄ illaꝝ difficultatū: et tūc ſeqť 2ª pars diſiūctiue. ſ. ꝙ ſm ꝙ motꝰ erit remiſſior: ſic difficultas erit minor. vel ſi q̄libet ſit maior q̄ȝ reſiſtētia medij vt ponit poſitio: ſeqť pª pars diſiūctiue. ſ. ꝙ. a. b. faciūt difficultatē infinitā ptrāſeūdo. c. adequate in hora.

ℂ Jtez ſeqť illa ↄclō ꝙ poª dupla ad. a. mouēdo ſm vltᵐ 3º ſolū in hora ſufficit ptrāſire. c. ⁊ ſilr poª q̄drupla ad. a. mouēdo ſm vltᵐ ſolū in hora ſufficit ptrāſire. c. ⁊ ſilr poª quadrupla ad. a. ⁊ octupla: ⁊ ſic in ifiᵐ in hora pciſe ſufficit ptrāſire. c. ⁊ tn̄ poª minor q̄ȝ dupla ad. a. in hora ſufficit ptrāſire. c. que ↄcluſio manifeſte includit oppoſita. ſi. n. poª minor q̄ȝ dupla ad. a. in hora ſufficit ptrāſire. c. igiť oīs poª dupla ad. a. vel maior q̄ȝ dupla ad. a. in minori tpe q̄ȝ in hora ſufficit ptrāſire. c. qa idē meᵐ pōt poª maior in minori tpe ptranſire q̄ȝ poª minor. ℂ Et ꝙ ↄcluſio ſequať arguiť ſic. Nā potentia dupla ad. a. faciet pciſe in duplo maiorē difficultatē q̄ȝ. a. faciet in. c. ⁊ illa eſt eq̄lis difficultatꝫ cū difficultate cōpoſita ex actionibꝰ. a. ⁊. b. ⁊ tota difficultas acta ab. a. ⁊. b. eſt ptrāſitio. c. in hora: igiť poª dupla ad. a. pciſe in hora ptrāſiret. c. Silr p pargūta poª q̄drupla ad q̄lalibet illaꝝ 4ᵒʳ poªᵗᵘᵐ pciſe tātā difficultatē ſufficit facere ſicut oēs ille 4ᵒʳ potētie: ſȝ ille nō faciēt aliquā difficultatē niſi que eſt ptrāſire. c. in hora: igiť poª q̄drupla ad q̄lalibet illaꝝ 4ᵒʳ poªᵗᵘᵐ in hora pciſe ſufficit ptrāſire. c. ⁊ ſic in infiᵐ: igiť in ifinituz maior poª aliq̄ illaꝝ poªᵗᵘᵐ infinitaꝝ pciſe in hora ſufficit ptrāſire. c. ⁊ q̄libet illaꝝ eſt maior q̄ȝ reſiſtētia. c. ģ in infinitū magna poª pciſe in hora ſufficit ptrāſire. c. et tn̄ poª minor q̄ȝ dupla ad. a. ſ. ſexqaltera ad. a. in hora adeq̄te ptrāſibit totū. c. vt ↄſtat: eo ꝙ talis in duplo velocius moť q̄ȝ. a. igiť ſeqť ↄcluſio. ℂ Silr ifinite modica eſt 4º aliq̄ poª aliq̄ȝ ptē. c. diuidēs: qa poª in hora pciſe ptrāſiēs. c. eſt minor q̄ȝ dupla ad. a. ⁊ in infiᵐ minor illa poª eſt aliq̄ illaꝝ: qa in ifinitū magna eſt pportio difficultatis acte ab. a. ad difficultatē actā ab aliqua illaꝝ: vt pꝰus argutū eſt: ⁊ difficultas in gº corrn̄det potētie ipſam ſm vltᵐ agēti: igiť

ĩfinita modica eſt aliq̃ illaꝛ poᵉ mouẽtiũ in.c.ꝛ quelibet
ſufficit agere in.c.igiẽ ſeqẽ ꝯclo ꝙ ois po quãtãcũq; modi
ca ſufficit aliquã ptẽ.c.mediũ diuidẽ:ꝛ eadẽ rõne totũ:ex q̃
5 totũ eſt vniforme.❡ Et ex illo ſeqẽ ꝙ ois difficultas p ſe
põt fieri in.c.medio vniformi:ga ois difficultas corriidẽs
potentie maiori q̃ eſt reſiſtẽtia.c.mediũ vt pꝫ:ga ois talis
po in illud mem ſufficit agere:ꝛ ois minor po q̃ eſt.c.reſi
ſtẽtia ſufficit aliq̃ ptẽꝫ.c.diuidẽ:ꝛ in eo ſm vltm ſui mouẽ
vt argutũ eſt:igiẽ ſeqẽ ꝯclo que imedte repugnat põni ꝛ p
dictis.❡ Ideo forte pro ſolõne huius argti dĩ ꝙ ſicẽ nulla
eſt po ex.a.ꝛ.b.cõpoſita:ita ex difficultatib ꝛ eoꝛ actio
nib nulla eſt difficultas cõpoſita intẽſiue:ideo difficultas
acta ex.a.ꝛ.b.nõ eſt dupla ad difficultatẽ actã ex vno illo
rũ.nulla.n.eſt talis ꝛc. ❡ Cõtra ar ſic.pbãdo ꝙ illud nõ
ſoluit arm:ga ita eſt in q̃titatib eq̃lib ꝙ ſi ex duab q̃ti
tatib eq̃lib fieret vna illa foret dupla ad vtrãq; illaꝛ:lꝫ
nulla ſit de facto ex duab illis cõpoſita:ꝛ p ꝯñs ſi ſint due
difficultates eq̃les:ſi aliq̃ foret difficultas cõpoſita ex il
lis:illa foret dupla ad vtrãq; illaꝛ de p ſe:ꝛ iſta nõ eſt niſi
ptranſitio.c.in hora:ga nulla foret difficultas alia ex iſtis
acta. Cum igiẽ po ptrãſiẽs.c.adequate in hora nõ eſt du
pla ad.a.ſeqẽ igiẽ ꝙ difficultas nõ attẽdiẽ penes poaꝫ ꝛc.
6 ❡ Itẽ ſit.d.minima difficultas que corriidet ptrãſitiõi.c.
in hora:ꝙ talis ſit dãda manifeſte appꝫ:ga aliq̃ eſt mini
ma po que adeq̃te in hora ſufficit ptrãſire.c.ſ.po ſexgal
tera ad.a.tũc ar ſic:p actiones.a.b.diuideẽ ſiue ptrãſibiẽ
c.adeq̃te in hora:igiẽ actiones.a.ꝛ.b.corriidẽt.d.ꝛ ille due
ſunt duple ad vtrãq; illarũ ſi ex his vna eẽt cõpoſita:igiẽ
d.difficultas eẽt dupla ad difficultatẽ.a.ꝛ po minor q̃ du
pla ad.a.facit.d.ſ.po ſexgaltera ad.a. vt pꝫ:igiẽ difficul
tas nõ attẽdiẽ penes poaꝫ. ❡ Itẽ deẽ difficultas minima
7 que ſit.c.que ſufficit diuidẽ medietatem.c.in hora:tũc ex q̃.c.
medietates ſunt eq̃les ꝛ eodẽ g reſiſtẽtes:ſeqẽ ꝙ diuidẽs
c.in hora facit duas difficultates:quaꝛ vtraq; eſt eq̃lis.e.
ꝛ faciẽs.d.difficultatẽ:diuidit vtrãq; medietatẽ in hora:ꝛ
p ꝯñs.d.ꝯtinet duo.e.ꝛ.d.non fit a po in duplo maiori q̃
e.ga.e.fit ab.a.ꝛ.d.a po in ppor ſexgaltera maiori:vt no
8 tũ eſt.igiẽ difficultas nõ atten penes poaꝫ. ❡ Itẽ ſic tãto
motui ſicẽ eſt motus.a.in.c.corriidet.c.difficultas:igiẽ mo
tui duplo in.c.due.c.difficultates corriidẽt.ꝯña tenet:q2
mot duplus ꝯtinet in ſe duos mot ſubduplos:igiẽ ſi mo
tui ſubdu corriidet vnũ.c.motui du corriidebũt duo.c.q2
in motu du duo.c.includunẽ:ga cuilibet tali motui vnuꝫ
c.corriidet:ꝛ ad motũ dupm ad motũ.a.in.c.nõ reqriẽ po
du ad.a.ſꝫ ſolũ ſexgaltera vt pꝫ:igiẽ difficultas nõ attẽ
9 diẽ penes poaꝫ vt pꝫ:igiẽ ꝛc. ❡ Itẽ ar ꝯtra põnẽ ſic. An
te q̃cũq; iſtãs aget.a.difficultatẽ ĩfinitã:ga ad oẽꝫ pũctũ
c.mouere eſt tãta difficultas ſicẽ eſt.f.gr̃a exẽpli:igiẽ cũ.a.
ante q̃cũq; inſtãs ad ĩfinita pũcta mouebiẽ pducet diffi
cultates ĩfinitas eq̃les.f.igiẽ ſeqẽ ꝙ ante q̃cũq; iſtãs pdu
cet difficultates ĩfinitas. Uel ſic ar. Ad oĩa pũcta.c.mouẽ
eſt.f.difficultas.g ad oĩa pũcta.c.vel ad infita pũcta.c.ſunt
ĩfinite.f.difficultates:igiẽ ſi vna difficultas eẽt cõpoſita ex
iſtis illa eẽt ĩfinita:ꝛ ante q̃cũq; inſtãs aget.a.tãtũ ſicẽ tũc
illa eẽt:ga ad ĩfita pũcta talia mouebiẽ.igiẽ ſeqẽ ꝯcluſio ꝛ
10 falſitas põnis:ga.a.po eſt ſoluꝫ finita. ❡ Itẽ ar ſic. Agat
a.in.b.aliq̃ actione nãli calefaciẽdo ipm:ꝛ ar ſic.q̃lꝫ pars
b.vt inexiſtit toti certo g reſiſtit.diuidaẽ g in ptes ppor
tionales ꝛ ar ſic:q̃lꝫ pars pporlis.b.certo g reſiſtit:ſit igiẽ
c.po eq̃lis gdui remiſſo quo aliq̃ pars pporlis.b.put ineſt
toti reſiſtit ꝛ ar ſic:ante q̃cũq; iſtãs aget.a.ĩfinitas diffi
cultates:q̃rũ q̃lꝫ erit maior q̃ eſt difficultas quã.c.ſufficit
agere:igiẽ.a.aget difficultatẽ infinitã. ❡ Pro illo forte dĩ
negãdo ꝯñtiã:ga ille difficultates cõicãt ſicut reſi z pris
pporlis cõicat cuꝫ reſi aliaꝛ. ❡ Cõtra arg ꝙ B nõ ſoluit
argm:ga ſi eẽnt ĩfita aliaꝛ:q̃rũ q̃libet eẽt tãte reſi eẽntialis
quãte eſt pars ppor.b.corriidẽs reſiſtẽs eẽntialr ꝛ acci
talr:q̃rũ nulliũ iuuaret reliquũ ad reſiſtendũ:ꝛ.a.ageret
p oĩa ſiẽ ĩfinitã difficultatẽ pduceret:ga ĩfinitas difficulta
tes eq̃les nõ cõicãtes.vel ſaltẽ q̃rũ q̃ubet eſt maior vl tã
ta ſicut difficultas acta a.c.cum igiẽ in quãcũq; ptẽ ppor
tionaleꝫ.b.nũc aget tantã difficultatẽ ſicut ageret.a.in ali
quod illoꝛ illi parti correſpõdens. Sequiẽ igitur ꝙ ante
quodcũq; inſtãs producet difficultatem infinitam.

PRo oibus artm ꝯtra põnẽ p eſt intellm ꝙ mot ꝛ Pro ſo
difficultas nõ cõſequunẽ ſe:nec vnq̃ lutione
ad duplationẽ velocitatis in motu duplaẽ difficultas niſi argti.
qñ in duplatione mot duplaẽ po. ❡ Itẽ imaginãdũ eſt
de difficultate actiõis vniformi in tpe ſicẽ de motu vnifor
mi in tpe vel caliditate vniformi in ſubo:ſic ꝙ ſicut oẽs ille
caliditates itẽſiue ſunt eq̃les ꝛ nõ extẽſiue:ſic ẽt q̃libet pars
difficultatis pducte ab eadẽ po nõ debilitata agente ſm
vltm ꝯtu eſt cuilibet aliꝫ pti actiõis ſue difficultatis ſm tpꝫ
pducte ab ea eq̃lis iten ꝛ nõ exten:ſic ſi gd mo p totuꝫ
tps ab eq̃li po ſm vltm eq̃lẽ difficultatẽ p totũ intẽſiue p
ducet illa po in medte hore ſicẽ in tota hora:ſicẽ eq̃lis eſt mo
tus itẽſiue ab vna po cũ eadẽ reſi pductis in medietate ho
re ſicẽ in tota hora. ❡ Itẽ ſic duo mot a duob mouẽtibus
in paſſa oĩno diuerſa:ita ꝙ illi mot ad nullũ eũdẽ pũctuꝫ
ꝯcurrãt itẽſiue/nõ ꝯſtituũt maiorẽ motuꝫ q̃ vnus illoꝛ p
ſe:ga aliter oẽ mouẽs p totũ vno g ĩfim motuꝫ pduceret:
ita qñ ſunt duo mouẽtia ex q̃b vna po nõ fit nec vnũ p
aliud veloci agit ex illis nõ fit vna actio itẽſiue:nec vna
difficultas:ſicẽ ſi vnus hõ leuaret vnũ lapidẽ hic ꝛ ali Ro
me nõ ex actõib ſuis fit vna actio nec vna difficultas:qñ
tñ ex duabus potẽtijs fit vna po:tũc eadẽ erit actio vtri
uſq; illaꝛ:ꝛ vna difficultas.ꝛ ideꝫ eſt qñ due actiones re
eiuſdẽ ꝯcurrũt ſicẽ qñ duo hoies trahũt vnã nauẽ ſm vltm
illi duo maiorẽ difficultatẽ faciũt q̃ aligs illoꝛ p ſe. ❡ His Ad arm
intellectis rñdeẽ ꝛ ad argm.ꝛ p ad pm admittiẽ caſus ꝛ dĩ ꝙ
nulla eſt difficultas cõpoſita ex.a.ꝛ.b.difficultatib itenſiue:ga
dato B ipoſe foret ſoluẽ arm ibi factũ:gn ĩfinitã difficultatẽ
facerẽt.a.b.diuiden totũ.c.in hora:vel ĩfim modicũ faciet
aliq̃ illaꝛ ĩfimꝫ poꝫ:q̃ruꝫ q̃libet aliq̃ ptẽ.c.diuideret:ꝛ ſic
nõ pcedũt arta nec ꝯñes ꝯtra põnẽ. ❡ Et ad argm facta ꝯ
hãc rñſionẽ recitatã rñdeẽ ꝯceden ſi eẽt difficultas cõpo
ſita ex difficultatib.a.b.ꝙ illa eẽt dup ad vtrãq; illaꝛ:ſꝫ ne
gaẽ ꝙ illa difficultas eſſet ptrãſitio.c.in hora:ga ſi ex diffi
cultatib iſtis fieret vna intẽſiue:ꝛ ex.a.ꝛ.b.potẽtijs fieret
vna itẽſiue:vel ſi hẽet vt vna po itenſiue ex his cõpoſita ſicẽ eſt
ex duob eque fortib ſm vltm cũ eq̃li appli agẽtib in idẽ:
ꝛ tũc.a.b.plus q̃ in du veloci moueret q̃.a.vel.b.p ſe:eo
ꝙ po eẽt duplata:vt notũ eſt. Unẽ ſi ſit pciſe du ppor ex
qua mo aligd in medio vnifor diuidẽdo totũ in hora eſt
in du maioris difficultatis q̃ diuidẽ medietatem in hora adeq̃te:q2
ad B faciẽdũ reg po du:ga tũc fieret mot dup.ꝛ ſi idẽ
mouẽs moueret ex minori ppor q̃ dup:nõ eſt in du ma
ioris difficultatis diuidẽ totuꝫ in hora q̃ diuidẽ medietatem:ga
po minor q̃ dup B põt facẽ:ſi tñ illud mouẽs moueret a
maiori ppor q̃ du:diuidẽ totũ in hora eſt plus q̃ in du
maioris difficultatis q̃ diuidẽ vel ptranſire medietatem in hora
illa:ga po maior q̃ dupla re ad B faciẽdũ vt ꝯſtat eo ꝙ
reg dup mot vt ꝯſtat:ꝛ duplato motu a maiori ppor q̃
du pueniẽte creſcit po vltra dum. ❡ Et tũc ad arm admit
tiẽ caſus ꝙ.d.ſit minima difficultas:ꝛ dĩ ꝙ difficultas actiõis
vel ptrãſitiõis vel mutatiõis in tãto tpe vl in tãto attẽdiẽ
penes vnã poaꝫ ꝯtu que mutatiõeꝫ eius in tãto tpe vel in
tãto cũ iſta reſi cõplẽ poterit ꝛ nõ penes multas:ga infite
po:q̃ruꝫ q̃lꝫ eſt maior po q̃ reſi.c.ſufficiũt adeq̃te ptrã
ſire.c.totũ in hora:ꝛ inſic erũt ſite difficultates ibi:q̃rũ q̃lꝫ eſt

difficultas

diffitis correſte poe eq̃li reſie.c.maiori: ⁊ ſic tota difficultas eẽt infita.ſic igit̃ ex iſtis potẽtijs nõ fit vna poa: ſic ſe hꝫ illa ꝑtrãſitio.c.ꝙ illi correſpõdet vna diffitas que.ſ.eſt minima correſpõdẽs ꝑtrãſitiõi eiuſdẽ in hora que penes vnã poam ſufficiẽs hꝫ factũ attẽdit̃.⁊ ſic negat̃.a.b.facẽ illã difficultatẽ:ſꝫ tñ ꝑtrãſeãt totũ.c.in hora:q2.a.b.nõ cõſtituũt aliq̃ vnã poam itẽm nec faciũt vnã diffitẽ:ſi tñ aliq̃ eẽt difficultas ex diffibꝫ.a.b.cõpoſita illa eẽt maior.d.⁊c̃. ¶ Et tũc ad arm aliud qñ arr ⁊ poe ꝙ tũc.c.ſit minima difficultas q̃ eſt ſufficiẽs diuidere metẽ.c.in hora admittit̃:⁊ eſt illa q̃ correſpõdet poe.a.ſi ꝑ ſe.a.ageret.Et negat̃ ꝙ illud diuidẽs in hora facit duas diffites.c.ſꝫ diuidat vtrãq̃ metẽ:q2 poa nõ eſt dua.ſꝫ hñ ſequit̃ ꝙ agit dum motũ. Nec etiã ex hoc ſeq̃t̃ ꝙ.d.cõtinet duo.c.dato.n.io ſeq̃t̃ ꝙ.d.difficultas eẽt infia.Uel ꝙ ꝑ remiſſionẽ mot9 ad nõ gm minorẽt̃ difficultas ad nõ gm:cui9 oppm eſt arm ſic.aliq̃ eſt difficultas diuidẽ 4.am toti9 in hora:igit̃ diuidẽs totũ faceret 4or tales diffites:⁊ ſic in infim de octo ⁊.16.ſic̃ ꝓus argutũ eſt:q2 infita poa ꝑ ſe in hora ꝑtrãſiret.c.q̃rũ q̃libet faceret maiorẽ diffitẽ q̃ illa que correſpõdet poe.c.⁊c̃.

¶ Ad aliud arm cõcedit̃ ꝙ motui.a.in.c.correſpõdet.c.difficultas.⁊ negat̃ cõña vlteri9.q̃ motui dupo ad iſtũ motũ correſpõdẽt duo.c.q2 tãto motui in.c.nõ correſpõdet tãta difficultas niſi ꝑ accñs:q2 ad tãtũ motũ tãta poa ſicut eſt.a.req̃rit̃:ita ꝙ ꝑ ⁊ ꝑ ſe difficultas eſt tãta:q2 poa eſt tãta:ita ꝙ mot9 nõ eſt cã diffitis niſi 2m:q2 ad tãtũ motũ correſpõdet tãta poa in io meo req̃rit̃:q2 ſtat mot9 ſub oĩ gu imaginabili cũ q̃cũq̃ magna vl' modica diffite:eo ꝙ ab infita modica poa infinit9 mot9 poterit ꝓduci:⁊ a q̃tacũq̃ magna poa infim ꝑuus mot9 vt cõſtat.⁊ ideo ſi tãt9 mot9 ſit ſufficiẽs cã tãte diffitis optie ꝓcederet argm:qḋ tñ hic eſt negatũ ⁊c̃.Exm ad hoc eſt data certa reſia ⁊ certe ꝓporni vt ſexq̃altere iter poas ⁊ illã reſias cert9 req̃rit̃ go poe:igit̃ duab9 ꝓporbꝫ ſexq̃alteris iter poas ⁊ eãdẽ reſia duo tales go poe req̃runt̃:nõ ſeq̃t̃ vt notũ eſt.Uel magis ad ꝓpom exceſſui iter duo ⁊ vnũ tãt9 mot9 correſpõdet:igit̃ exceſſui due rem illi9 poe correſpõdet duplus mot9:nõ ſeq̃t̃ q2 ꝑ accñs eſt ꝙ tãto exceſſui correſpõdeat tãt9 mot9:q2 hoc eſt eo ꝙ tãto exceſſui rem vnt9 tãta ꝓporo.ſ.dupa correſpõdet:⁊ ſic nõ ꝓcedit arm. ¶ Ad aliud arm di ꝙ lꝫ ad oẽs pũctũ.c.motiere ſit tãta difficultas ſicut eſt.f.⁊ imete poſt hoc ad infita pũcta mouebit̃.a.g̃ infinitã diffitẽ ⁊c̃.nõ ſeq̃t̃:q2 nõ faceret maiorẽ q̃ faceret mouẽo ad vnũ pũctũ tñ.Ex his.n.nulla difficultas inteſiue cõponit̃:ſicut dato core moto gu vniforr ꝑ totũ ad oẽs pũctũ eſt eq̃lis mot9 ſicut ad aliquẽ:⁊ ſi ſic/ibi ſunt infiniti mot9 eq̃les:⁊ tot9 mot9 nõ eſt inteſior q̃ mot9 ad vnũ punctũ:q2 ex illis motib9 nullus vnus mot9 cõponit̃ inteſiue:⁊ ſic eſt de calitate vniformi extẽſa ꝑ ſubm:q2 tota nõ eſt inteſior q̃ pars ei9 ꝑ quãcũq̃ modicã ptẽ extẽſam.

¶ Et ad cõfirmatiõẽ cõcedit̃ ꝙ ſi eẽt vna difficultas cõpoſita ex his oĩbus inteſiue ꝙ illa eẽt infita.⁊ negat̃ ꝙ ante q̃dcũq̃ inſtãs ageret.a.tãtã difficultatẽ ſicut io eẽt:lꝫ ad infinita eius mouebit̃ pũcta:q2 vt ꝓus nõ eſt aliqua difficultas ex his inteſiue cõpoſita. ¶ Et tũc ad vltimũ argm admittit̃ ꝙ.a.agat in.b.diuiſũ in ptes ꝓporles:⁊ cõcedit̃ ꝙ in omni parte ꝓportionali illius agẽtis dum inexiſtit toti eſt certa difficultas.ſ.tãta ſicut eſt agẽs in totũ.q2 q̃d.n.ſufficit agere in ptẽ:ſufficit agere in totũ cui9 eſt pars:⁊ eius agere in oẽs ptes eſt ſolũ difficultas finita:q2 ex his nõ eſt aliq̃ inteſiue cõpoſita ſicut exẽplificabat̃ prius de motu vniformi.Et ad cõfirmatiõẽ cõcedit̃ ꝙ ſi eẽt hꝫ infinite eq̃les reſiſtẽtie eẽntiales ſicut ſunt ille ptes:⁊.a.ageret ꝑ illas ꝙ ſolũ difficultatẽ ꝓduceret finitã:⁊ hoc ſi nulla iuuaret aliã ad reſiſtẽdũ.⁊ ſi hꝫ oĩa eẽnt eq̃lis reſiſtẽtie eq̃lis diffitis ꝑ ſe eẽt agere in oĩa ſicut in vnũ ſi nullũ iuuaret aliud.oĩs.n.poa que in vnũ poſſet agere in oĩa poſſet agẽ nõ exñte defectu ex pte applicationis:ſicut dato luminoſo agẽte ꝑ mem aliq̃d ſi infita hꝫ media eẽnt eq̃e hñ applicata ſicut vnũ:q̃d tñ non eſt poſſibile:cõſil'r ageret tũc in oĩa ſicut nũc agit in vnũ ⁊ nõ magis difficultaret̃:⁊ ſic eſt de alio. ¶ Eſt tñ intelligendũ ꝙ ſi eẽnt aliq̃ duo ⁊ agẽs ageret ꝑ illa:ita tñ ꝙ vnũ eorũ eẽt interceptũ iter agẽs ⁊ aliud:interceptũ illud necio iuuaret aliud ad reſiſtẽdũ ⁊ ipediret̃ illud agẽs:⁊ tũc erit maior difficultas agere in illa duo q̃ in vno illorũ per ſe:⁊ ſic q̃tũ eſt ex pte poe nõ repugnat qn ſil' equal'r ꝑ infinita ageret:q̃rũ q̃dlibet erit eq̃lis reſie cũ alio ⁊ eq̃lis q̃titatis:ſꝫ defect9 erit ex pte applicatiõis:q2 nõ põt ſil' applicari ad oĩa eq̃ue bene ſicut ad vnũ illorũ. ¶ Si tñ q̃reret̃ ex qua ꝓporne agit agens in duo eq̃lis reſie. ¶ Rñdet̃ ꝙ nulla eſt ꝓporo vna ſcḋm quã agit in illa duo ſic illa duo nõ cõſtituũt aliquã vnã reſiam:ſꝫ ſcḋm ꝓporez toti9 poe ad vnũ agit in illud ⁊ ſcḋm ꝓportionẽ toti9 poe ad aliud cũ applicatione illa agit in aliud:⁊ ſic in illa duo agit duas difficultates diuerſas in numero:⁊ nulla eſt difficultas vna ſcḋm quã agit in illa duo:⁊ ſic nõ procedit argm factum cõtra poſitionem.

Aliter arguo cõtra põnẽ ꝓbãdo ꝙ q̃cũq̃ gu reſiſtẽtie dato mouẽ in duplo veloci9 cũ q̃cũq̃ gu remiſſiori illo q̃ cũ iſto gu eſt ꝑ ſe eq̃lis difficultatis:ſicut dato gu vt ſex non eſt aliq̃s remiſſior iſto gu mouẽ in duplo veloci9 cũ iſto gu remiſſiori q̃ cũ gu vt ſex eſt eq̃lis diffitis. ¶ Sil'r q̃buſcũq̃ duob9 ineq̃lib9 gradib9 reſie aſſignatis q̃cũq̃ ꝓpore poſſibili mouẽ veloci9 cũ vna q̃ cũ alia eſt eq̃lis diffitis:ſicut ſignatis duob9 gradib9 ineq̃lib9 mouere in duplo velocius: ⁊ ſil'r in triplo veloci9 ⁊ in q̃druplo veloci9:⁊ ſic in infim:ſeu in ſexq̃altero veloci9 ⁊ in ſexq̃altero veloci9:⁊ in ſexq̃quarto veloci9:⁊ ſic in infim deſcẽdẽdo cũ minori q̃ cum maiori eſt eq̃lis diffitis. ¶ Prima ſic arr.Det̃ vna reſia ſub gu aliq̃ q̃ ſit.c.tunc q̃ſcũq̃ gradus remiſſior.c.det̃ iter illos eſt certa ꝓporo:ſit igit̃.d.gradus ille remiſſior:tũc q̃tacũq̃ magna vel modica fuerit illa ꝓporo iter.c.⁊.d.talis ꝓportio eſt poſſibilis iter aliquã poam maiorẽ.c.⁊.c.q2 quãtacũq̃ aliq̃ ꝓportio fuerit magna vel modica in tãta ad im gm.c.põt gradus aliq̃s ſe hẽe.⁊ ſi ſic ſit igit̃.a.tãta poa:⁊ ſeq̃t̃ ꝙ in duplo velocius mouebit̃.a.cũ.d.q̃ cũ.c.q2 extrã ꝓpornes.a.ad.c.⁊.c.ad.d.ſunt eq̃les pꝫ ꝙ in duplo veloci9 ſufficeret.a.mouere cũ.d.q̃ cũ c.⁊ illud mouẽs in vtroq̃ ſcḋm vl'm eq̃lẽ difficultatẽ ꝓducit:igit̃ mouere cũ.d.gradu in duplo veloci9 q̃ cum.c.eſt eq̃lis difficultatis.Et ſic argr de illo.d.gradu:ita de oĩ alio gradu arr:eo ꝙ q̃ſcũq̃ gradus reſie det̃:cõtingit accipe aliquã poam ſe hñtẽ in maiori ꝓporne ad illũ:⁊ in duplo maiori ꝓpore q̃ ad reſiſtẽtiã datã q̃cũq̃ det̃:eo ꝙ data ꝓporne iter illos gradus manifeſte:pꝫ ꝙ cõtingit accipere poam ſe hñtẽ in illa ꝓporne ad illã reſiſtẽtiã maiorẽ.ſeq̃t̃ igit̃ pa cõcluſio. ¶ 2a cõcl'o arguit̃ ſic. Sint.c.d.duo gradus reſiſtẽtie inter q̃s ſit aliq̃ ꝓportio finita que ſit.f.tũc nõ erit aliq̃ ꝓportio poſſibilis qn in tãta velocius ſufficiat aliqua poa mouere in.d.q̃ in.c.Sit.n.aliqua poa.a.que ſe hꝫ ad.c.gradũ maiorẽ q̃.d.in certa ꝓpore:⁊ ſeq̃t̃ ꝙ ꝓportio.a.ad.d.ſe hꝫ ad ꝓpornẽ.a.ad.c.in certa ꝓpore que ſit.e.minoret̃ igit̃ a.ad equalitatẽ.c.⁊ ſeq̃t̃ ꝙ extrã in infinitũ modica erit ꝓportio.a.ad.c.manẽte.f.ꝓpore iter.c.d.ꝙ in infinitũ erit maior aliq̃n ꝓportio iter.a.⁊.d.q̃ iter.a.⁊.c.cõña eſt ſatis manifeſta.Item maioret̃.a.in infim ſtãtib9.c.d.⁊ ſeq̃t̃ ꝙ ꝓportio iter.a.c.maiorabit̃ in infim:⁊ ꝓporo.a.ad.d.excedit ꝓpornẽ a.ad.c.ſolũ per ꝓpornẽ.c.ad.d.⁊ ſic in via diminutionis ⁊ augmẽtationis erit oĩs ꝓporo imaginabilis iter ꝓpornẽ.a.ad.d.⁊ ꝓpornẽ.a.ad.c.q2.c.⁊ oĩs maior ⁊ oĩs minor. Uel idẽ eẽt argm ſi.a.nũc eẽt equale.c.⁊ maioraret̃ in infinitũ:tũc in infinitum modica inciperet eẽ ꝓportio.a.ad.c.⁊ fier in infinitũ magna:eo ꝙ maiorabit̃ in infinitũ exceſſu ab alia ꝓportione.a.ad.d.ꝑ.f.ꝓportiõez:⁊ ſic igit̃ iter illas erit oĩs

Item cõtra eãdẽ poſitionem.

2a cõcl'o

ꝓportio imaginabilis:igiť ſequiť ꝙ non eēt aliq̄ ꝓportio
imaginabilis gn ſic accipe aliquā poᵉᵐ que in tāta ꝓporᵉ
ſufficiat velociꝰ mouere in.d.q̄ȝ in.c.ꝛ ageret ſm vltᵐ ſue
potētie:igiť ſm oēm ꝓportionē velociꝰ agēdo vel mouen
do in minori reſiſtētia q̄ȝ in maiori eq̄lez difficultatē pōt
3 ɔnes. hꝫ poᵃ ꝓducere:qḋ fuit ꝓbādū.⸿ Cōtra iſtas ɔnes ſic ar-
guiť.Sit.b.vna reſiſtentia:ꝛ.c.d.alie due reſiſtētie mino-
res:quaꝝ.d.ſit minor:ꝛ.c.maior. Et arg̾ ſic.Eq̄lis difficul
tatis eſt mouere in duplo velociꝰ in.c.q̄ȝ in.b.iuxta pōnez
ꝛ pᵃˢ ɔnē:igiť mouere cuȝ.d.in duplo velocius q̄ȝ cū.b.nō
eſt eq̄lis difficultatis.ɔña pȝ:qꝛ ſi data poᵃ in duplo ve-
locius ſufficit mouere in.c.q̄ȝ in.b.ſequiť ꝙ nulla talis nec
minor:ſȝ bñ maior ſufficit in duplo velociꝰ mouere in.d.
q̄ȝ in.b.igiť maioris difficultatis eſt mouere in duplo ve-
locius in.d.q̄ȝ in.b.q̄ȝ eſt mouere in.c.in duplo velociꝰ q̄ȝ
in.b.Añs pȝ:qa ſi.a.poᵃ in duplo velocius ſufficiat moue
re in.c.q̄ȝ in.b.ꝓportio:tūc.a.ad.b.equalis erit ꝓportioni
b.ad.c.cuȝ igiť.d.ſit minor reſiſtētia q̄ȝ.c.pȝ ꝙ ꝓportio.a.
ad.b.erit minor ꝓportiōe.b.ad.d.ꝛ per ɔñs ꝓportio.a.ad
d.nō eſt dupla:ſed plus q̄ȝ dupla ad ꝓportionē.a.ad.b.et
ſic motꝰ.a.in.d.nō eſt duplus ad motū.a.in.b.ſed plus q̄ȝ
duplus.⸿ Itē ſi data reſiſtētia aliqua eq̄lis eſſet difficul-
tatis mouere in duplo velociꝰ cū omni minori illa q̄ȝ cū il
la:igiť oīs poᵃ que cū illa reſiᵃ pōt mouere pōt cuȝ oī mi-
nori illa in duplo velociꝰ mouere.ɔña pȝ:qa vniᵣ eq̄li dif-
ficultati corrñdet eq̄lis poᵃ agēs ſm ſui vltᵐ: ita ꝙ ſi ſint
due actiones eq̄lis difficultatis qcq̄d pōt facere vnaȝ pōt
facē reliquā.ɔñs eſt falſum:qa ſi.a.poᵃ in duᵒ velociꝰ ſuffi-
ciat mouere cū.c.q̄ȝ cū.b.ꝛ.d.reſiᵃ eſt minor q̄ȝ.c.igiť plus
q̄ȝ in duplo velociꝰ ſufficit moᵣᵉ cuȝ.d.q̄ȝ cū.b.ꝛc.⸿ Itē ſit
a.poᵃ mouēs vt.12.cū reſiᵃ vt ſex:ꝛ.b.poᵃ vt 4.ᵒʳ mouēs cū
reſiᵃ vt vnuȝ a ꝓporᵉ q̄drupla:tūc in duplo velociꝰ moue-
bit.b.q̄ȝ.a.ꝛ.b.tātā difficultatē nō agit ſic.a.eo ꝙ.a.eſt ma
ioris poᵉ q̄ȝ.b.mouēs ſm vltᵐ ſui:igiť mouere in duplo ve
locius cū reſiᵃ vt vnū q̄ȝ cuȝ reſiᵃ vt ſex nō erit eq̄lis diffi-
ɔtra zᵐ cultatis.igiť pᵃ ɔclō vī falſa.⸿ Nūc igiť ɔtra zᵃᵐ ɔnē arᵣ
ſic.Sint.c.b.duo gradus reſiᵉ ineq̄les:ꝛ ſic arg̾.ſi mouē in
duplo velociꝰ cū.c.q̄ȝ cū.b.eq̄lis eſt difficultatis.g̊ mouere
plus q̄ȝ in zᵒ velociꝰ in.c.q̄ȝ in.b.eſt minoris diffiᵗᵗˢ.ɔña arᵣ
ſic. Sit.d.vnus ḡdus reſiᵉ cū quo.a.plus q̄ȝ in duplo velo
cius ſufficit mouere q̄ȝ in.b.ꝛ ꝑciſe in duplo velociꝰ in.c.q̄ȝ
in.b.tūc.a.mouēdo in.c.b.d.eq̄lez difficultatē facit:ſȝ ſi.a.
plus q̄ȝ in duplo velociꝰ moueret in.c.q̄ȝ in.b.minorē diffi
cultatē faceret q̄ȝ mouēdo plus q̄ȝ in duplo velocius in.d.
q̄ȝ in.b.eo ꝙ.d.reſiᵃ eſt minor q̄ȝ.c.g̊ mouere in.c.in duplo
velociꝰ q̄ȝ in.b.ꝛ plus q̄ȝ in duplo velocius in.c.q̄ȝ in.b.nō
eſt eq̄lis difficultatis.⸿ Itē ſi ſit eq̄lis difficultatis ꝛc.ſe-
quiť ꝙ quacūq̄ȝ ꝓportiōe data/q̄cūq̄ȝ poᵃ pōt in illa ꝓpor
tione mouere velociꝰ in.c.q̄ȝ in.b.vt argutū eſt in arᵗᵒ zᵒ cō
tra pᵃᵐ ɔnē:ſed ɔñs eſt falſuȝ vt ibi eſt oſtēſum.⸿ Itē ſic.
moueat.a.in duplo velociꝰ in.c.q̄ȝ in.b.ꝛ ſit.d.poᵃ in triplo
velocius mouēs in.c.q̄ȝ in.b.ꝛ ſeq̄ť ꝙ.a.equalē difficulta-
tē faciet mouēdo in duplo velociꝰ in.c.q̄ȝ in.b.ſȝ.d.mino-
reȝ difficultatē faciet q̄ȝ.a.eo ꝙ.d.eſt minoris poᵉ q̄ȝ.a.vt
notū eſt.igiť cuȝ eq̄lis ſit difficultas mouere in duplo ve-
locius in.c.q̄ȝ in.b.g̊ mouere in triplo velociꝰ in.c.q̄ȝ in.b.
nō eſt eq̄lis difficultatis:qa eſt minoris difficultatis.g̊ cō-
cluſio falſa.⸿ Itē ſi ſic:ſeq̄ť ꝙ mouere in ifiᵗᵐ modice ve
locius in.c.q̄ȝ in.b.erit in ifiᵗᵐ maioris difficultatis q̄ȝ mo-
uere in ifiᵗᵐ velociꝰ in.c.q̄ȝ in.b.Moueať eīȝ.a.in.b.c.ꝛ ſtā-
tibꝰ.b.c.minoreť ꝓportio motꝰ.a.in.c.ad motū eiꝰ in.b.in
ifiᵗᵐ:ꝛ ſeq̄ť ꝙ.a.maiorabiť in ifiᵗᵐ:qa q̄ȝdiu erit.a.poᵉ fini-
te:ex q̄ ɔtiᵉ erit certa ꝓportio.b.ad.c.ſequiť ꝙ ɔtiᵉ in certa
ꝓporᵉ velocius ſufficiet mouere in.c.q̄ȝ in.b.igiť cū in ifiᵗᵐ
minorabiť ꝓporᵒ motꝰ ad motū:ſeq̄ť ꝙ in infiᵗᵐ maiorabiť
ꝓportio.a.ad.b.ɔñtia eſt ſatis nota.Et ſi ſic in īfinitū ma-
iorabiť.a.ꝛ per ɔñs cuȝ ɔtinue ageret ſm vltᵐ:ſeq̄ť ꝙ ifi-
nitā faciet difficultatē infinite modice velociꝰ mouēdo in
c.q̄ȝ in.b.⸿ Nūc igiť argᵣ ex alia pte:ſtātibꝰ.b.c.maioreť
ꝓporᵒ motꝰ.a.in.c.ad motū eiꝰ in.b.in ifiᵗᵐ:ꝛ ſeq̄ť ꝙ.a.ɔti-
nue minorabiť:eo ꝙ ꝓportio.b.ad.c.ɔtinue erit tāta ſicut
nūc eſt:ꝛ ꝓportio.a.ad.b.ɔtinue erit minor q̄ȝ nūc eſt:igiť
cuȝ ꝓportio.b.ad.c.in ifiᵗᵐ erit maior ꝓporᵉ.a.ad.b.igiť ſe-
quiť ꝙ ꝓportio.a.ad.b.in infiᵗᵐ minorabiť ſtāte.b.igiť.a.
minorabiť ad equalitatē.b.ꝛ ꝑ ɔñs nunq̄ȝ faciet tātā diffi-
cultatē ſicut faceret ſtāte ſua poᵃ:igiť in ifiᵗᵐ velociꝰ mouē
do in.c.q̄ȝ in.b.faciet minorē difficultatē:igiť ſeq̄ť ɔcluſio.
Ex qua ſequiť ꝙ ex maiori ꝓportione mouendo velocius
in.c.q̄ȝ in.b.minorem difficultatem faciet.

Pro iſtis di negādo vtrāq̄ȝ ɔnē:di ꝙ datis reſiſtē- R.ᵃ
tijs ineq̄libꝰ mouere in duplo velociꝰ in
vna q̄ȝ in alia non eſt ſimplr eq̄lis difficultatis nec mino-
ris nec maioris ſicut data reſiſtētia vt ſex ꝛ reſiᵃ vt vnuȝ
poᵃ vt.12.mouēdo cuȝ reſiſtētia vt ſex:multo maiorē dif-
ficultatē faciet q̄ȝ poᵃ vt 4.ᵒʳ mouēdo in duplo velociꝰ cuȝ
reſiſtētia vt vnū:vt notuȝ eſt.ideo mouere in duplo velo-
cius cū reſiᵃ minori q̄ȝ maiori nō eſt ſimᵣ eq̄lis vl̄ maioris
difficultatis nec etiā minoris ꝛc.qꝛ deť.a.poᵃ que ſe hꝫ ad
ſex:ſic ſex ad vnū.ſ.36.ꝛ ſeq̄ť ꝙ iᵃ mouēdo in reſiᵃ vt vnuȝ
in duplo velociꝰ q̄ȝ in reſiᵃ vt ſex eq̄lē difficultatē ꝑciſe fa
ciet:eo ꝙ eſt eadē poᵃ mouēs ſm vltᵐ.Itē data poᵃ maio
ri que ſit.d.que ſe habeat ad ſex in maiori ꝓporᵉ q̄ȝ eſt ſex
ad vnū illa nō in duplo velociꝰ ſufficit mouere cū reſiᵃ vt
vnū q̄ȝ cū reſiᵃ vt ſex:vt notū eſt.Sit igiť.c.poᵃ que in du-
plo velociꝰ ꝑciſe ſufficiat mouere cū reſiᵃ vt vnū q̄ȝ.d.cuȝ
reſiᵃ vt ſex.ꝛ pȝ ꝙ eſt maior q̄ȝ.d.igiť maiorē facit difficul
tatē.c.mouēdo in duplo velociꝰ cū reſiᵃ vt vnū q̄ȝ facit.d.
mouēdo in duplo tardius cū reſiᵃ vt ſex.g̊ rñſio eſt vera.
⸿ Eſt tñ ɔcedēdū ꝙ data reſiᵃ aliq̄ ꝛ vna remiſſiori illa
aliqs eſt certꝰ gradus quo gᵘ mouere cū illa maiori ꝛ gra-
du duplo cuȝ minori erit ꝑciſe eq̄lis difficultatis.eadē.n.
eſt neceſſio poᵃ illos duos motꝰ ꝓducēs:qḋ ſic pȝ.detur poᵃ
que ſe hꝫ in ꝓporᵗᵉ que eſt inter illas zᵃˢ reſiᵃˢ ad maiorez
reſiᵃᵐ ꝛ ſit.a.potētia ꝛ.b.maior reſiᵃ ꝛ.c.minor:tūc nulla eſt
poᵃ.a.maior nec minor.a.que ſe hꝫ ad.b.in illa ꝓporᵗᵉ:vt
ɔſtat:ꝛ ꝑ ɔñs nulla eſt poᵃ maior nec minor que ſe habet
ad.c.in duabꝰ talibꝰ ꝓportionibꝰ mouere:g̊ in.b.cū gradu
corrñdēte ꝓporᵗᵐ.a.ad.b.ꝛ gradu duplo in.c.eſt ꝑciſe eq̄-
lis diffiᵗᵗˢ.Et ſic etiā aliqs gradus eſt quo gᵘ mouere in.b.ꝛ
gᵘ triplo in.c.eſt eq̄lis difficultatis ſicut capta medietate
ꝓporᵗᵒⁿⁱˢ iter.b.c.mouere gᵘ iſti ꝓporᵗⁱ corrñdēte in.b.ꝛ gra
du triplo in.c.eſt ꝑciſe eq̄lis difficultatꝫ.Potētia.n.ſe hñs
ad.b.in illa ꝓporᵗᵉ.ſ.in medietᵗᵉ ꝓporᵗᵒⁿⁱˢ inter.c.ꝛ.b.ſufficit
mouere in.b.gradu iſti ꝓporᵗⁱ corrñdēte ꝛ ḡdu triplo ad
c.illa eīȝ poᵃ ſe hēbit ad.c.in tribꝰ ꝓportiōibꝰ talibꝰ:ꝛ nul-
la maior nec minor:ꝛ ſic de omni alia ꝓporᵗᵉ:qꝛ quecūq̄ȝ
ꝓportio deť erit dare aliquē gradūȝ motus quo gradu in
maiori reſiſtētia mouere ꝛ gradu in illa ꝓporᵗᵉ intēſiori in
minori reſiſtentia mouere eſt equalis difficultatis. Et eſt
dare gᵘᵐ quo gradu mouere in medio maiori ꝛ mouere in
medio minori gradu ſe hñte ad gᵘᵐ motꝰ in maiori in illa
ꝓporᵉ nō eſt eq̄lis difficultatis:qa vt oſtēſum eſt poᵃ ali-
qua pōt mouere cū reſiᵃ maiori aliq̄ gradu ꝛ gradu in da
ta ꝓporᵗᵉ intēſiori cuȝ reſiſtētia minori:ꝛ etiā aliq̄ poᵃ pōt
iſta mouere cuȝ maiori ꝙ ad motū in ꝓportione data ma-
iori in medio minori reqriť poᵃ maior que eſt alia ab iſta.
Oia hec facillime patent intuētī:ꝛ ſic nō ſunt iᵉ ɔnes ſcḋe
ɔcedēde.⸿ Et ideo ad argumēta ad ꝓbationē facta faci-
liter rñdeť negādo ɔñtiam illā datis duabꝰ reſiſtētijs in-
equalibꝰ eadē potētia in duplo velocius ſufficiet mouere
ſm vltᵐ

ſm vltimū in via q̄ȝ in alia ꝛ eq̄leȝ difficultatē ꝑducet ſic mouēdo in iſtis:ḡ eq̄lis difficultatis eſt mouere in meᵒ minori gᵒ in duᵒ ꝛ gᵘ ſubduᵒ in maiori nō ſeq̄r ſic manifeſte pȝ. Sed multū maioris difficultatis eſt mouē in maiori q̄ȝ in minori:ſȝ ſolū ſeq̄r ꝙ tāta velocitate mouē cū hac reſiᵃ maiori q̄ta.ſ.illa poᵃ pōt mouē cū illa maiori:ꝛ tāta velocitate mouē in miori q̄ta.ſ.eadē pōt mouē in miori eſt eq̄lis difficultatis. Sic ēt dr̄ ꝙ in pᵒ argᵗᵒ ſolū ſeq̄r ꝙ mouere certo gᵘ in reſiᵃ maiori quo.ſ.pōt poᵃ mouē in iᵒ ꝛ mouere gᵘ duᵒ ad illuȝ in meᵒ minᵒ reſiſtēte dato eq̄lis eſt difficultatis vt ꝑus dcm̄ eſt. Et ſic nō ꝓcedit argᵐ pro ↄcl'one pᵃ. ¶ Sic ēt rn̄det ad ꝓbationē 2ᵉ ↄnis negādo ↄn̄tiaȝ hanc nō eſt aliq̄ ꝓporᵒ gn̄ in tāta pōt aliq̄ poᵃ mouere velociᵘ in.d.q̄ȝ in.c.igr̄ nō eſt aliq̄ ꝓporᵒ gn̄ in tāta mouē velociᵘ in.d.q̄ȝ in.c.eſt eq̄lis difficultatis ꝛc̄. Sȝ bn̄ ſeq̄r ꝙ nō eſt dare ꝓporⁿᵉᵐ gn̄ eſt dare aliquē gᵐ morᵒ quo gᵘ mouere in maiori ꝛ in ꝓporⁿᵉ data velociᵘ cuȝ minori erit eq̄lis difficultatis. Et ſic nō ꝓcedūt ↄnes:q2 nō erit aliq̄ ꝓporᵒ gn̄ in tanta poᵃ minor velociᵘ ſufficit mouē in minori reſiᵃ q̄ȝ poᵃ maior in maiori ſiē maᵗᵉ pȝ. Der̄ eniȝ.c.reſiᵃ maior ꝛ.d.minor:ꝛ ſit.b.poᵃ tāta ſic eſt reſiᵃ.c.ſit.a.poᵃ maior.b.q̄ minorabir̄ ad eq̄litatē.b.ꝛ ſeq̄r ꝙ.a.in ifiᵗᵘᵐ tarde mouebir̄ in.c. ꝛ.b.certe veloᵗ in.d.ↄn̄r:ſtent.n.nō variata.b.c.d.igr̄ in infinitū magna eᵗ ꝓporᵒ morᵒ.b.in.d.ad motū.a. in.c.ꝛ.b.ↄn̄r erit mioris poᵃ q̄.a. Rurſus igr̄ maioret̄.a.quouſq3 equeᵗ moueat̄ in.c.ↄn̄r ſicut.b.in.d.ꝛ ſeq̄r ꝙ in infiᵐ moᵈᵒ erit ꝓportio morᵒ.b.ad motū.a.igr̄ nō erit aliq̄ ꝓporᵒ imaginabilis gn̄ in tāta ſufficiat.b.mouere velocius in.d.q̄ȝ.a.in.c. ꝓporᵒ.n.motuū in iᵒ caſu mioraṫ a gᵘ infiᵗᵒ ſucceſſiue vſq3 ad nō gᵐ.ſ.ꝓporᵒ morᵒ.b.in.d.ad motū.a. in.c.ꝛ.b.ↄn̄r erit mior q̄ȝ.a.iō in duᵒ velociᵘ mouē in.d.q̄ȝ in.c.nō eſt ſimpl'r eq̄lis difficultatis:ḡ nō ꝓcedūt arᵗᵃ. ¶ Notādū tn̄ ꝙ lȝ ſit dare maximā actionē quā poᵃ pōt facē:nō tn̄ eſt dare maximū in qd̄ pōt facē.ſ.ꝙ pōt agē in tantā reſiⁿᵐ ꝛ nō in maiorē. ¶ Itē ſi poᵃ in agēdo ↄn̄r debilitet̄ nō eſt dare maximā difficultatē quā faciet:ſȝ minimā q̄ȝ nō:q2 nulla eſt maxima poᵃ ex q̄ aget ꝛ illa minia difficultas quā nō agit eſt gᵘ terminās illā poⁿᵐ quā hȝ.ſ.corrn̄dēs poᵉ eiᵒ in pn̄ᵒ hēre q̄ ſi maneret tātā difficultatē facēt:pro oī tn̄ iſtāti eſt dare maximā diffiᵗᵃᵗᵉᵐ quā tūc aget vl' ſufficiet ꝛc̄. Et eᵗ iᵒ q̄ ꝑūc ſue poᵉ in gᵘ corrn̄det:ħ tn̄ nō obuiat ꝑus dcīs. ¶ Itē pro dcō Lōᵗᵒʳ vbi dr̄ ꝙ eſt dare maxᵐ qd̄ ſoꝛ.ſufficit portare. Dōȝ eſt ꝙ portare pōt accipi 2ʳ. vnoᵒ pro detinē ne cadat ſic data poᵃ aliq̄ cui ſuppoᵗ aliqd ḡue eq̄lis poᵉ cū poᵃ illa: tūc iᵈ ḡue illā poⁿᵐ deprimē nō pōt ſtāte poᵃ tāta.ſed qd̄lȝ ḡuiᵘ illo ſufficēt illā poⁿᵐ depmē:ꝛ iō illa poᵃ eſt minia que illud ḡue pōt portare.i.q̄ pōt illō ḡue detinē ne cadat:ꝛ ſic dr̄ ꝙ illō ḡue eſt maxᵐ qd̄ illa poᵃ pōt portare ad moᵐ loquēdi dcm̄. 2ᵒ accipit̄ portare qd̄ ideȝ eſt ꝙ moᵗᵉ local'r cū aliq̄ ſupra poſito:ꝛ ſic nō eſt dare maxᵐ pōdus qd̄ ſoꝛᵉ portare pōt:ſȝ bn̄ eſt dare maxᵐ pondus qd̄ pōt portare certa veloᵗᵉ data. Sufficit.n.Lōᵗᵒ ꝑ exēpla iducē ↄnē quā intēdit.ſ.ꝙ agēs nāle agit maximā actionē quā ꝑ ſe pōt facere:cū q̄lȝ poᵃ nālis terminat̄ per gᵐ actiōis eideȝ corrn̄dēteȝ in latiᵗᵉ actiōis ꝛ difficultatis vt ꝑdictū eſt.multe ↄnes pn̄t elici ex dcīs ad quaꝝ tn̄ vtrāq3 ꝑtē ꝓbabiles pn̄t fieri rōnes q̄ ꝑ ꝑdcā ſi bn̄ itelligant̄ ſatis facil'r ſoluūtur.

¶ Tractatus decimus de maximo ꝛ minimo.

Sequitur ḡ ponere quaſdā reglas ↄcernentes diuiſiones faciēdas ꝑ maximū ꝛ minimū quo ad ꝑtrāſitionē ſpatii alibi:aliis tn̄ regulis gn̄alibᵘ poſitis vt ſm hōs diuiſiones faciēdas promptior faciliorq3 rn̄ſio hēat̄. ¶ Et pᵒ notāde ſunt ſig̃atiōes terminoꝝ. Ut maximuȝ ſig̃at ſic.ſ.tātū ꝛ nō maiᵘ: ꝛ minimū aliquātuȝ ꝛ non minᵘ. Et maximū qd̄ nō.i.nō tātū ſȝ oē maiᵘ:ꝛ minimū ꝙ nō.i.nō tātū ſȝ oē minᵘ. ¶ Cū igr̄ hec diuiſio eſt aſſignāda reᵘ poᵉ actiue vniᵘ dabir̄ ꝑ affirⁿᵉᵐ de maxᵒ ꝛ negⁿᵉᵐ de miniᵒ vt iferiᵘ patebit:corpo.n.ꝙ poᵃ actia pōt in aliō agē a fortiori in qd̄lȝ minᵘ pōt. Jō nō eſt dare miniᵐ qd̄ ꝑt facē poᵃ actia nec maxᵐ in qd̄ nō pōt:q2 qd̄ in.b. nō pōt agē nec in maiᵘ.b.pōt a forᵗⁱ:ḡ ħ nō eſt maxᵐ in qd̄ nō ꝑt. Et ſilr nō corpo ꝙ ꝑt in aliqd̄ ꝑt in oē maiᵘ:nec corpo ꝙ ꝑt i qd̄cūq3 minᵘ illo certo dato ꝑt in illō:q2 poᵃ eq̄lis ſue reſiᵉ nō pōt agere in ſuā reſiⁿᵐ ſȝ in oēȝ minorē:iō illa eſt minia in quā nō pōt agere. Itē eſt dare aliquātū qd̄ pōt in horā ꝑtrāſiri motu ꝑueniēte a ꝓporⁿᵉ dupla vt notū eſt ꝛ vt iferius patebit. ¶ Cū tn̄ fit diuiſio reᵘ poᵉ paſſiue/illa eſt danda per affirmationē de minimo ꝛ negaⁿᵉᵐ de maxio.nō.n.pōt eſſe affirmatio maximi. Si.n.ab aliq̄ certo pōt pati a fortiori/a maiori iſto pōt pati:nec pōt eē negatio d̄ minimo. Si.n. ab aliq̄ nō pōt pati a fortiori a minori iᵒ non pōt pati:ſed affirmatio de minio pōt dari:q2 data reſiᵃ iſta pōt pati a maiori iᵃ ꝛ moᵗⁱ a ꝓporⁿᵉ iſta ꝑ poⁿᵐ ſȝ vltᵐ agēteȝ. Jō eſt dare vnā poⁿᵐ q̄ pōt mouere illā reſiⁿᵐ a ꝓporⁿᵉ dupla nec minor illa hoc pōt facere cū ceteris paribᵘ ꝛc̄.iō illa poᵃ.ſ. dupla ad illā reſiⁿᵐ eſt minia a q̄ pōt moueri ex ꝓportiōe dupla.ſuſtinēda eſt ēt pᵒ neᵗⁱᵃ de maxᵒ:data.n.reſiᵃ iſta nō pōt moueri ab aliq̄ poᵃ ſibi eq̄li ſȝ ab oī maiori q̄ȝ eſt ſua reſiᵃ:igr̄ poᵃ alicui reſiᵉ eq̄lis eſt maxia a q̄ nō pōt moueri illa reſiᵃ. ¶ Ulteriᵘ eſt notādū ꝙ oīs poᵃ agēs in aliud debilitat̄ in agēdo vel nō debilitat̄. Oē etiā mediū vel eſt vnifoꝛᵉ vel diffoꝛᵉ. ¶ Iteȝ falſitas vel vificatio ſubcōtrarioꝝ ad hōs diuiſioneȝ reqſita que fcā eſt reᵘ pertrāſitionis ſpatii.ſ.ſic dīᵒ illa poᵃ pōt aliqd̄ mediū pertrāſire:ꝛ aliqd̄ nō:pōt hēri duobᵘ modis ſm intell'm aut rōne vtutis aut rōne q̄titᵗⁱˢ. Pᵃᵒ mō ſic eſt aliqd̄ meᵐ tātū reſiſtēs ꝙ hec poᵃ illud nō poterit ꝑtrāſire. Aut itell'r 2ᵒ ꝙ eſt aliqd̄ tāte q̄titatis qd̄ rōne ſue magnitudis poᵃ illa nō pōt ꝑtrāſiri. ſȝ illō eſt fl'ȝ:ex q̄ q̄titas ſibi nō reſiſtit nō eſt aliq̄ magⁿᵉ quin maiora quacūq3 poᵃ quātūcunq3 modica ꝑtranſiri pōt:eo ꝙ cuȝ velocitate data pōt quātūcūq3 modica poᵃ mouere vt notū eſt:iō iſto mō itelligēdo nunq̄ȝ vificabūt̄ iᵃ ſubcōtraria. ¶ Sȝ pᵒ mō intell'r.i.ꝙ rōne reſiᵉ hec poᵃ pōt aliqd ꝑtrāſire ꝛ aliqd nō:ꝛ ſiue fiat diuiſio reᵘ poᵉ debilitabilis ſiue indebilitabilis exiſte meᵒ vniformi vl'r eſt pᵒ negatiua ſuſtinēda. Sit.n.caſus ille ꝙ.a.ſit aliq̄ poᵃ indebilitabilis:ꝛ ſit.b.eq̄lis ſibi poᵃ debilitabilis:ꝛ ſit.c.reſiᵃ vniformis ꝛ ſibi eq̄lis:tunc.a.nō pōt diuidere.c. meᵐ vniforme:ſed eē mediū vniforme minᵘ reſiſtens eo pōt diuidere:q2 ad oē tale meᵐ ſe hȝ in ꝓporⁿᵉ maioris inequalitatis:ḡ pōt aliquā ꝑtē eiᵘ diuidere:ꝛ ſic totū cū ſit poᵃ idebilitabilis. Simil'r.b.poterit iᵈ idē meᵐ ꝑtrāſire:q2 ex quo ſe hȝ ad illud in ꝓporⁿᵉ maioris ineq̄litatis pōt eiᵘ aliquā partē pertrāſire:ꝛ quātūcūq3 debilitet̄ pōt minus debilitari:ḡ totū ſufficit pertrāſire ꝛ nullaȝ partē.c.ſufficit.a.aut b.pertrāſire:igr̄.c.eſt minimū in qd̄ nō ſufficit ꝑtranſire. ¶ Itē ecōtra reᵘ medii qd̄ eſt poᵃ paſſiua exiſte meᵒ vniformi verificatis illis ſubcōtrariis:ſiue fiat diuiſio in cōparatiōe ad poⁿᵐ debilitabileȝ ſiue idebilitabileȝ vt ſic dicendo.hoc meᵐ pōt aliq̄ poᵃ actiua pertrāſire ꝛ nō quelȝ vl'r ſuſtinēda eſt pars negatiua.ſ.ꝙ eſt dare maximā poⁿᵐ que hoc facere nō pōt:ꝛ eſt illa que eſt ſibi eq̄lis reſiſtentie illius medii. Oīs.n.poᵃ maior iᵃ reſiſtētia pōt illud mediuȝ diuidere: ſiue ſit potētia debilitabilis ſiue idebilitabilis:nō.n.ita modicū debilitat̄ gn̄ minᵘ poſſit debilitari. pȝ igr̄ que pars eſt ſuſtinēda reᵘ poᵉ actiue limitate nō limitata reſiᵃ medii : nec tpe limitato exiſte meᵒ vniformi.

Sequitur ḡ ponere quaſdā reglas vbi eſt limitatio taȝ ad gᵐ poᵉ q̄ȝ ad gᵐ medii. ¶ Pro quo:

Nota, q̄ nō eſt dare maximū qd̄ poteſt aliqua potentia facere:nō tn̄ maximū in qd̄ pōt facere.

Portare dupl'r.

Potētia actiua terminat̄ per maximū

Potētia paſſiua ꝑ minimū.

pᵃ regᵃ

2ᵃ regᵃ

eſt notãdũ ꝙ hõ mediũ aut eſt fim aut infim. Sz ſolum ſit finitũ ⁊ vniforme altera ſubcõtrariarũ erit falſa diuiſione fcã re potẽtie actiue in cõparatione ad ptẽ medij limitati nõ hñtis limitatiões ex pte tpis: vt ſic dicẽdo.aliquã ptẽ huiꝰ medij vniformis põt hec poa trãſire ⁊ diuidere ⁊ aliquã nõ:qꝛ ois poa que põt aliquã ptẽ iſtius diuidere põt ⁊ totũ ſi ſit ĩdebilitabilis vt ſatis pz.⁊ ſi ſit dbilitabilis quãtũcũqz modice debilitet/põt ⁊ minꝰ debilitari vt notũ eſt: ⁊ ideo quãcũqz eiꝰ ptẽ põt diuidere ⁊ trãſire:⁊ ideo nõ limitato tpe nõ valebit hõ diuiſio.Aliqñ tñ põt fieri tpis limitatio talis:aliquã ptẽ huius medij in tanto tpe tranſire põt ⁊ aliquã nõ:⁊ tũc põt hõ ſubcõtraria vificari. ❡ Pro quo por hec ra.qñ fit diuiſio re poe actiue limitate in cõparatiõe ad ptem medij vniformis limitati tpe limitato: poa ra ex̃ñte indebilitabili/iſtis ȝrijs vificans/vlr eſt ſuſtinenda ps affirmatiua:⁊ fcã diuiſione re poe debilitabilis cũ pdictis vlr ſuſtinẽda eſt ps negatiua. Pria ps huiꝰ rle pz.Sit.a.poa indebilitabilis ⁊ ſit.c.mem vniforme:⁊ ſit.d. tps limitatũ:tũc ſi.a.nõ põt trãſire totũ.c.in.d.tpe/eſt dare maximã eiꝰ ptẽ quã põt in eodẽ.d.tpe ptrãſire.Moueat̃ enĩ per totũ.d.tps ſm vltimũ ⁊ erit aliqd ab illo ptrãſitũ vt cõſtat:⁊ id eſt maximũ qd ptrãſibit in.d. tpe vt notum eſt:cũ igit̃ ſua poa nõ debilitet̃ ⁊ moueat̃ ſm vltimũ in.d. tpe/poterit illã ptẽ ptrãſire ⁊ nõ ptẽ maiorẽ ipſiꝰ.c.⁊ ideo iſta ps eſt maxia pars.c.quã in.d.tpe ſufficit ptrãſire. Pz igit̃ pa ps regle.Et 2a ẽt ſic arr.Sit.e.iſta ps.c.maxia quã ſufficiat in.d.tpe tranſire.Et ſeqt̃ ꝙ ſi.b. poa debilitabilis ſit eq̃lis.a. poe idebilitabili ꝙ erit.e.minima ps quã.b.nõ ſufficiet trãſire in.d.tpe:qꝛ nõ ſufficiet trãſire.e.in.d.tpe:qꝛ ſua poa debilitabit̃:que ſi nõ debilitaret̃ trãſiret totam.e. partẽ in.d.tpe:ſz oẽm ptẽ.e.minorẽ q̃ eſt.e. ſufficiet in.d. tpe pertrãſire ⁊ diuidere:qꝛ ſi nõ debilitaret̃ trãſiret totã e.ptẽ in.d.tpe:ſed quãtũcũqz modicũ debilitet̃ minꝰ poſſz debilitari.g̃ nõ eſt aliq̃ pars.e.minor q̃.e. qn ptẽ arẽ ia in d.tpe ſufficit ptrãſire.aũa ia nota eſt.Seqt̃ g̃ manifeſte ꝙ e.ps eſt minima quã.b.poa debilitabilis in.d. tpe nõ ſufficit ptrãſire:qd fuit pbãdũ. ❡ Uñ gnãlr in medio vniformi limitato tpe iſtis ſubcõtrarijs vificatis id qd eſt maxim ꝙ a poa idebilitabili in 1o tpe poterit ptrãſiri erit minim ꝙ a poa debilitabili illi poe indebilitabili eq̃li nõ poterit in eodẽ tpe ptrãſiri. Iſta.n.poa debilitata totũ id maxim non põt ptrãſire:ſed oẽm partẽ minorẽ vt ꝑus arguitũ eſt de.a. b.potẽtijs. ❡ Itẽ fcã diuiſione re medij vniformis limitati ꝙ eſt poa paſſiua in cõparatiõe ad pos debilitabiles limitato tpe ⁊ illis duobꝰ ſubcõtrarijs regſitis vificatis/eſt vlr ſuſtinẽda pars negatiua. Si.n.fiet hõ diuiſio in cõparatiõe ad pos indebilitabiles vlr:ſuſtinẽda eſt pars affirmatiua:ſicut ſic fcã diuiſione illa hõ mediũ vniforme ab aliq̃ poa indebilitabili in hora poterit ptrãſiri ⁊ nõ a q̃lz: g̃ eſt dare minimã potẽ a qua poterit.ſ. idebilitabili vel maximã a qua nõ.dõm eſt ꝙ eſt dare minimã potẽ a q̃ poterit:⁊ eſt illa q̃ mouẽs ſm vltm ipm in hora adeq̃te trãſiret ſicut manifeſte pz:qꝛ nꝰ minor totũ in hora trãſiret. ❡ Si tñ fiet iſta diuiſio re poe debilitabilis.dõm eſt ꝙ eſt dare maximã potẽ debilitabilẽ a q̃ nõ poterit ptranſiri ⁊c̃.Et eſt poa debilitabilis eq̃lis illi poe idebilitabili q̃ eſt minia q̃ ſufficit totũ in hora ptrãſire.nã iſta nõ põt totuz in hora pertrãſire:qꝛ debilitat̃. ois tñ poa debilitabilis maior ia ſi nõ debilitaret̃ in minori tpe q̃ in hora totũ trãſiret:cũ nõ ita modice poa debilitat̃ aliq̃ mouẽs qn minꝰ poſſit debilitari:g̃ ois poa maior in hora cũ debilitatiõe totũ poterit trãſire.pz g̃ ra. ❡ Itẽ ſi fiat diuiſio re poe idebilitabilis limitate ⁊ medij vniformis limitati in cõparatione ad tps vlr eſt ſuſtinẽda ps affirma/⁊ re poe debilitabilis ſuſtinẽda eſt pars negatiua. vbi.g.fcã iſta diuiſione.a.in aliq̃ tpe ptranſire põt.b.mem vniforme ⁊ nõ in quolz:eo ꝙ.a.ẽ poa idebilitabilis:g̃ eſt dare minimũ tps in quo illd ſufficit trãſire vl maximũ in quo nõ.dõm eſt ꝙ eſt dare minimũ tps in quo.a. ſm vltm mouẽdo ad extremũ.b.deueniet: ex quo ex certa ꝓportiõe mouebit̃: ⁊ ſm vltimũ pz ꝙ nõ in minori tpe illo poſſet totũ ptrãſire:aõ illud tps eſt minimũ in quo illud.a. idebilitabile totũ.b.mem ſufficit trãſire:⁊ illud tps eẽt maximũ in quo nõ poſſz poa debilitabilis illi.a. eq̃lis totũ.b. mediũ trãſire. Illa.n.in illo tpe nõ põt totũ ptrãſire:qꝛ ſua poa debilitabit̃ in io tpe:⁊ in quolibz maiori põt.ſic.n.ra.c. tũc ſic:in oi tpe maiori iſto qd eſt minimũ in quo.a.ſufficit pertrãſire ſufficeret aliq̃ poa idebilitabilis minor.a. totũ trãſire.b.ſed quecũqz poa minor.a. det̃/ſtat.c.ad gm nõ ita remiſſuz debilitari/trãſcũdo.b.eo ꝙ quãtũcũqz debilitat̃ minꝰ põt debilitari:g̃ in oi tpe maiori iſto in quo.a.totum trãſiret ſufficit.c.totũ.b.trãſire. ⁊ cũ vlr minimũ tps in q̃ poa idebilitabilis mediũ aliqd poterit pertrãſire erit maximũ tps in quo poa debilitabilis ſibi equalis totũ nõ poterit pertrãſire.patent ergo regule.

Quando aũt mediũ vniforme erit infim: aut enim fiet diũo re poe in cõparatiõe ad ptẽ medij: aut re medij in cõparatiõe ad pos: aut poe ⁊ medij limitatorũ in cõparatione ad tps vel ad tpa:aut re poe actiue pro qbꝰ quedã regule ponunt̃. ❡ Si g̃ mem hõ vniforme ſit ifim ⁊ quo ad ptes nõ limitatas iſtiꝰ ifiniti ſubcõtrarijs verificatis fiat diuiſio: ſiue fiat diuiſio re poe debilitabilis ſiue idebilitabilis/nõ limitato tpe: tũc ſuſtinẽda eſt ps negatiua:ſicut ſic dicẽdo.aliquã ptẽ.b. medij vniformis ifiniti ſufficit hec poa diuidere ⁊ aliquã nõ:vel g̃ eſt dare maximã ptẽ quã ſufficit vl minimã quã nõ: vtraqz illarũ ſubcõtrariarũ ſatis vificabit̃:qꝛ nullã ptẽ ifinitã ſufficit hõ poa pertrãſire. Iõ ps ifinita põt dici minia que nõ põt ab aliquo mobili in aliq̃ tpe finito pertrãſiri: lz tñ ille modus loquẽdi ſit iproprius:qꝛ ſignat ꝙ illã partẽ ifinitã nõ põt: ſz q̃lz illa minorẽ:ſignat g̃ id infim eẽ paruũ per hõ ꝙ oẽ cõparatiuũ ꝑſupponit ſuũ poſitiuũ. Uel põt ſic intelligi.pars ifinita eſt minima que nõ põt pertrãſiri ab hõ mobili: qꝛ iſta non põt ab hõ mobili pertranſiri: ⁊ ois pars finita põt ⁊ ſic eſt illa negatiua vera. Uel ſm q̃ſdã qñ fit diuiſio re huiꝰ ifiniti nõ valebit diũo:hec tñ diũo ſic tenet reſpectu poe idebilitabilis:ita tenet reſpectu debilitabilis.pars.n.ifinita ab aliq̃ tali pertrãſiri nõ põt:ſed ois pars finita põt.Et tunc pz gnãlr qualr reſpectu pertrãſitionis ſeu diuiſionis medij vniformis diuiſio aſſignãda eſt:⁊ que pars eſt ſuſtinẽda.

Sequitur g̃ ponere q̃ſdã res diuiſiones de maximo ⁊ minimo q̃tũ ad pertrãſitionẽ medij difformis ꝯcernẽtes. Pro quo pmitꝰ eſt notãdũ ꝙ oẽ mediũ difforme:aut erit difforme ſm ſe totum:aut erit ita ꝙ aliq̃ eiꝰ pars erit vniformis. ⁊ ſi ſic:aut ps maxie reſiſtẽs eſt vniformis ita ꝙ nꝰ ſit reſia in illo maior q̃ ſit reſia illius ptis vniformis.vel ps maxie reſiſtẽs ⁊ hñs gm intẽſiſſimũ iſtiꝰ reſiſtẽtie eſt ſm ſe totũ difformis: ⁊ ps ia vniformis deficit a gradu intẽſiſſimo totiꝰ.Et ſi 2m ſit ꝙ ad pũctũ aliquem ſit maxia eiꝰ reſia:que reſia nõ eſt aliq̃ pars eiꝰ vniformis:vel g̃ mobile ſub eodẽ gradu ſub quo eſt maxia eiꝰ reſia: vel ad quẽ terminat̃ maxia eiꝰ reſia in pte maxie reſie icipiẽs motũ in io.meo.que poa eẽt idebilitabilis aliqñ ꝓp defectũ ꝓportionis ceſſaret a motu ſuo ad extremũ vel ad aliũ pũctũ intrinſecũ vel nõ ceſſaret ſic accidit in meo vnir difformi ⁊ alijs medijs difformibꝰ ad gm agẽtis terminatis. Nam lz mobile in eternũ moueret̃ nũq̃ȝ deueniet ad tãtũ gm reſie: nec ceſſaret a motu ꝓp defectũ ꝓportiõis:qꝛ nõ pt deuenire ad extremm illd qd ẽ ſub eodẽ gm ſic ẽ ſua poa vt ſupra vbi tãgit̃ de motu locali plenius pro vtraqz parte diuiſionis eſt oſtẽſum. ❡ Dis viſis:qꝛ q̃lz ps diſiũctiue cuiuſlz ꝓpoſitio

[Left margin notes:] pa rega; 2a rega; 3a rega

[Right margin notes:] Qñ mem eſt ifinitũ vniforme.; pa rega; Deſbet ĩ regulas.; Qñ mem eſt difforme.; Idẽ Dcſ.

in caſibꝰ diuerſis accidit:iõ pro q̃lꝫ pte reſtat ponere r̃las
ſingillatiꝫ. Et p̃ pro illa pte vbi ẽ ps maxia vniformis pro
1ª regª quo ponit̃ hec r̃la. ¶ Si fiat diuiſio reª medij ſic diffor
q maxio gª iſtiꝰ reſiſ ſit aliq̃ ps vnifor i cõparatiõe ad poª
debilitabileꝫ vl idebilitabileꝫ/ nõ fcã limitatiõe tpis vl'r
ſuſtinẽda eſt ps negatiua. vbi.g. Sit.b. tale meᵐ ⁊ fiat talis
diſio.b.põt ab aliq̃ poª ptranſiri ⁊ nõ a q̃lꝫ: vel g̃ eſt dare
maximã poª a q̃ non põt vel minimã a q̃ põt. Vel ſic dr̃
aliq̃ poª pt ptrãſire.b.⁊ nõ q̃lꝫ. vl g̃ eſt dare minimã poᵐ
que põt vel maximã q̃ nõ põt. Ille diſiones ſũt ↄuertibi/
les:iõ r̃ñdet̃ ⁊ dr̃ q eſt dare maximã poª ſiue debilitabi/
leꝫ ſiue idebilitabileꝫ a q̃ nõ poterit ptrãſiri:⁊ iſta eſt poª
q̃ reſiſ illius ptis vnifor adequat̃:ſic pdcm̃ eſt in pª rª de
medijs vnifor tradita.iſta.n.poª q̃ eſt maxia q̃ nõ ſuffic̃
ptrãſire ptẽ illã vniformẽ eſt maxia q̃ nõ põt ptranſire id
difforme vt pꝫ:eo q iſta ps maxie iter oẽs iſtas ptes reſi/
2ª regª ſtit. ¶ 2ª eſt hec ſi fiat diſio reª poᵉ idebilitabilis diuiſiue
limitate in cõparatiõe ad ptẽ huiꝰ medij:cuiꝰ.ſ. gª maxio nõ
eſt aliq̃ ps vnifor:nõ fcã limitatiõe tpis:tũc iª poª alicubi
hẽbit pporᵒⁿᵉᵐ eq̃litatis. vel g̃ ps in q̃ mobile mouebit̃:vl
icipiẽs ad punctũ iceptionis motꝰ eſt vnifor vel diffor.
Si vniformis reª poᵉ idebilitabilis ſuſtinẽda eſt ps affir/
matiua:⁊ reª poᵉ debilitabilis ſil'r. Si ṽo iſta ps ſit diffor/
mis ita q poª indebilitabilis ibi poſſet ceſſare a motu pp
defectũ pporᵒⁿⁱˢ,ſuſtinẽda eſt ps affirmatiua reª poᵉ idebi
litabilis:⁊ reª debilitabilis negatiua. Si ṽo in eternũ mo/
ueret̃ hꝫ poª idebilitabilis nũq̃ ceſſans a motu ob defe/
ctũ pporᵒⁿⁱˢ ceteris paribꝰ ſuſtinẽda eſt ps negatiua tã reª
poᵉ debilitabilis q̃ reª idebilitabilis:vt patebit in alijs re
gulis. Scd̃a ps ar' ſic. Si iª ps ſit difformis p̃ mõ terminata
ad gᵐ poᵉ in q̃ pte ſufficit moue illa poª idebilitabilis oẽꝫ
ptẽ hꝫ ſuffic̃ ptrãſire ⁊ nõ põt ptrãſire ptẽ maiorẽ:ibi eniꝫ
ceſſat a motu. ⁊ iª eadẽ ps eſt minia q̃ a poª debilitabili illi
poᵉ idebilitabili eq̃li nõ poterit ptranſiri:ſic.n.poª debili/
tabilis nec illa idebilitabilis pp defectuꝫ pporᵒⁿⁱˢ vlterius
ſufficit moue. Pria ps ẽt pꝫ:q̃cq̃d.n.poſſet pteꝫ illiꝰ medij
vnifor qḋ eſt ps totiꝰ medij ptrãſire/illud põt totã ptẽ vt
dcm̃ eſt. Pꝫ g̃ q̃lr facienda ſit diuiſio vbi nullũ meᵐ ſm ſe
totũ eſt diffor:ſiue fiat diuiſio reª medij in cõparatione ad
poª diuiſiuas ſiue reª poᵉ diuiſiue in cõparatiõe ad ptẽ me/
3ª regª. dij/nõ fcã limitatiõe quo ad tps. ¶ Iõ dõm eſt vbi id dif
forme eſt ſm ſe totũ diffor. Quaꝝ pª rª eſt hec. Si fiat di/
uiſio reª medij diffor q poª indebilitabilis ſub gª extre/
mali extis ſufficeret ptrãſire: vel in quo illa poª ceſſaret a
motu pp defectũ pporᵒⁿⁱˢ:que diuiſio fiat in cõparatione ad
poª diuiſiuas/nõ limitato tpe reª poᵉ idebilitabilis eſt ſu/
ſtinẽda ps affirᵃ:⁊ reª debilitabilis pars negatiua. vbi.g.ſi
fiat talis diuiſio hꝫ meᵐ põt aliq̃ poª ptrãſire ⁊ nõ q̃lꝫ: vel
g̃ eſt dare minimã que põt vel maximã que nõ põt:⁊ hoc
loquẽdo de meᵒ in quo poª eq̃lis maxie eiꝰ reſiſ ceſſaret a
motu pp defectũ pporᵒⁿⁱˢ. dõꝫ eſt q eſt dare minimã poᵐ
idebilitabileꝫ q̃ illud meᵐ ſufficit ptrãſire:⁊ illa poª eſt ſub
gª terminãte illud meᵐ vbi eſt maxia eius reſiª. illa.n.poª
põt totũ mediũ ptranſire ⁊ nõ minor:eo q oĩs minor hẽt
pporᵒⁿᵉᵐ eq̃litatis ad aliquẽ pũctũ citra extremũ vt notuꝫ
eſt:g̃ dato tali meᵒ eſt dare minimã poᵐ idebilitabileꝫ:⁊
poª debilitabilis illi poᵉ eq̃lis eſt maxia poª que id mediũ
nõ põt ptrãſire:q2 ex quo illa poª d̃bilitat̃ ceſſaret a motu
anteq̃ ad extremũ deueniret:⁊ omnis maior id totum ſuf
ficit pertrãſire:quia omnis maior ad omneꝫ pũctũ habet
pportionẽ maioris ineq̃litatis ⁊ quãtũcũqꝫ modicũ debi/
litet̃ minꝰ poſſet ipm̃ debilitari: g̃ ſeq̃t̃ q illa poª eſt ma/
xima poª debilitabilis q̃ totũ nõ ſufficit ptrãſire. Qz autẽ
ſit dare tale meᵐ in quo poª idebilitabilis pp defectuꝫ p/
portionis ceſſabit a motu ⁊ remittet motuꝫ ad nõ gradum

ſatis pꝫ:vbi tãgit̃ de motu locali. ⁊ pbat̃ q mediuꝫ illud
põt diſponi:ita q in illo poª remitteret motũ ſuũ ad nõ gra/
dum. ſequit̃ g̃ regl'a. ¶ Si fiat diuiſio reª medij ſm ſe to/ 4ª regª
tum difformis:ita q mobile idebilitabile:lꝫ in eternũ mo
ueret̃ nunq̃ ceſſaret a motu:cuiꝰ eſt mediũ vnifor' diffor
me ad graduꝫ agẽtis terminatũ:in cõparatiõe ad potentias
motiuas/nõ limitato tpe quo ad pmã idebilitabileꝫ ⁊ etiã
debilitabileꝫ ſuſtinẽda eſt ps negatiua.i.eſt dare maximã
poᵐ que illud mediũ nõ ſufficit pertrãſire ſiue fuerit poª
debilitabilis ſiue indebilitabilis: ⁊ eſt iſta poª que maxie
eiꝰ adequat̃ reſiſtẽtie. Iſta.n.nõ ſufficit totũ ptrãſire:quia
illa lꝫ in eternũ moueret̃ /ad extremũ intẽſius nũq̃ deue
niret:nec alicubi a motu ceſſaret:vt ponit̃ in pª pte regl'e.
Sed oĩs poª idebilitabilis maior iſta totũ ſufficeret ptrã/
ſire:q2 ad oẽꝫ punctũ hẽt pporᵒⁿᵉᵐ maioris inequalitatis.
pꝫ g̃ q iſta poª eſt maxima indebilitabilis que nõ ſufficit
totũ tranſire. Sil'r poª debilitabilis illi eq̃lis eſt maxima
que nõ ſufficit totũ trãſire. Oĩs g̃ maior iſta ſe hꝫ ad oẽm
graduꝫ iſtiꝰ reſiſtẽtie in pportiõe maioris ineq̃litatis:que
lꝫ debilitet̃ nõ reqrit̃ ipſaꝫ ad graduꝫ eq̃leꝫ gradui inten/
ſiſſimo huiꝰ reſiſ debilitari: g̃ oĩs poª debilitabilis maior
illa ſufficit totũ ptrãſire. pꝫ g̃ regl'a. ¶ Per iſtas ſupradi/
ctas regl'as pꝫ 2ª ps ſcd̃e rᵉ de medijs diffor. Si enim ſit
aliq̃ ps in qua illa poª ceſſat a motu que eſt idebilitabilis:
illa ps eſſet maxia reª poᵉ indebilitabilis:⁊ ita eadeꝫ pars
erit minima:que nõ reª poᵉ debilitabilis alteri eq̃lis:nõ tñ
ſimpl'r ſed cũ iſta determiatiõe terminata ad punctũ ince/
ptiõis motꝰ. ⁊ cã eſt:q2 ſit.c. illa ps difformis maxia quã.a.
poª indebilitabilis ſufficit trãſire:⁊ ſit.b. poª debilitabilis
alteri eq̃lis:tũc.c. nõ eſt minia ps quã.b. nõ ſufficit trãſire
ſimpl'r loquẽdo:q2 eſt aliq̃ ps illius medij minor q̃ eſt.c.
quã.b. nõ ſufficit pertrãſire:q2.b. nõ ſufficit trãſire aliquã
partẽ terminatã ad extremũ intẽſius.c.eo q ſua poª debi/
litaret̃ in mouẽdo:ideo.c.nõ eſt ſimpl'r minima ps quã.b.
nõ ſuffic̃ ptrãſire:nec aliq̃ alia a.c. ⁊ ideo eſt dare minimã
ptẽ terminatã ad pũctũ inceptiõis motꝰ quã nõ ſufficit.b.
trãſire:q2 oẽꝫ ptẽ minorẽ q̃.c. terminatã ad pũctũ iceptio/
nis motꝰ ſufficit.b. tranſire:vt ſi iciperet motũ in extremo
remiſſiori.c.ptis:tũc.c. ptẽ terminatã ad extremũ remiſſiꝰ
medij vel ad punctũ inceptionis motꝰ nõ ſufficit.b. tranſi/
re:ſed oẽm pteꝫ.c.ptis terminatã ad pũctũ iceptionis mo/
tus ſufficit.b. tranſire:q2 ad nulluꝫ punctũ talis ptis eſt tã/
ta reſiª ſicut eſt poª.b. ideo.c.ps eſt minima pars iſtiꝰ me/
dij terminata ad punctũ inceptionis motꝰ quã.b. nõ ſufficit
pertrãſire. Et ſic multe ſunt hꝫ diuiſiones que neceſſario
debẽt dari cũ hꝫ determinatiõe. pꝫ ergo pª pars iſtiꝰ ſcd̃e
partis ↄcl'onis. ¶ Alia pars iſtiꝰ 2ᵉ ptis arguit̃ ſic. Ex quo
illud mobile nõ q̃libet partẽ iſtiꝰ medij difformis ſuffi/
cit pertrãſire ⁊ aliquã partẽ ſufficit:ergo aliqḋ eſt punctuꝫ
totius ad quẽ eſt reſiſtẽtia tanta ſicut eſt poª iſtiꝰ mobilis.
Sit ergo id mobile.a.b. mediũ:ideo cuꝫ certa determina/
tione eſt dare partẽ negatiuã tam reſpcũ potẽtie debilita/
bilis q̃ etiã reſpectu potẽtie indebilitabilis. eſt eniꝫ dare
minimã partẽ ad punctũ inceptionis motꝰ terminatã quã
hoc nõ poterit ptrãſire:⁊ nõ eſt ſimpl'r dare minimã pteꝫ
quã nõ ſufficit pertrãſire:q2 nullã ptẽ terminatã ad pũctũ
hñtẽ gᵐ eq̃lẽ poᵉ põt iſta poª trãſire: vt ſumit̃ in añte iſtiꝰ
diuiſionis:ideo quecũqꝫ ps det̃ falſuꝫ eſt q illaꝫ ptem nõ
ſufficit hec poª trãſire:ſed oẽm minorẽ: q2 nullã minorem
illa que.ſ. terminat̃ ad extremũ intenſius ſufficit ptrãſire:
ideo nõ ſimpl'r dãda eſt iſta diuiſio:ſed cũ determinatiõe
pdicta vt ſit.c. pars terminata ad punctũ vbi icipit moᵗꝰ:⁊
ad graduꝫ.a.poᵉ:tũc.c. pteꝫ nõ põt.a. poª debilitabilis trã
ſire:q2 tũc ceſſaret a motu in.b. medio:qḋ eſt cõtra aſſum/
ptũ:ſed oẽm ptẽ minorẽ.c. terminatã ad extremũ remiſſiꝰ

ſufficit trãſire:per qđ extre^m eſt pũct^9 inceptiõis motus vt notũ eſt:eo q̃ ad oẽƺ punctũ cuiuſƺ talis ptis hƺ ppor^{nem} maioris ieq̃litatis:ideo.c.ps eſt minima ps.b.termiata ad extremũ remiſſi^9 ſiue ad pũctũ iceptionis mot^9 quã.a.nõ ſufficit trãſire:ꝛ eadeƺ ps ẽt eſt minima termiata ad punctũ exceptiõis mot^9 q̃ a po^a debilitabili.a. po^c indebilitabili eq̃li nõ poterit ptrãſiri:ꝛ oẽƺ ptẽ nõ terminatã ad extremũ inteſius.c.poterit hõ po^a debilitabilis eq̃lis.a.tranſire:eo q̃ ad oẽƺ ptẽ taleƺ hƺ ppor^{nem} maioris ineq̃litatis: ꝛ quãticũqƺ modicũ volueris q̃ debilitet̃ minus poterit debilitari. Ideo cũ hõ determinatiõe ſatis admittẽda eſt diuiſio:pƺ g̃ qualr in difformib^9 eſt dõƺ ſm ſe tota admittenda eſt diuiſio ꝛ que ps ſuſtinẽda eſt ſiue fiat diuiſio re^a medy in cõparatiõe ad potẽtias debilitabiles ſiue indebilitabiles:nõ limitato tpe ſiue reſpectu po^c limitate in cõparatione ad partem medy.

Quã ſit limitatio ex pte tpis. 1a regula

Sequitur g̃ nũc dicere qualr ſuſtinẽda ſit diuiſio in hõ medys ſcã limitatiue ex pte tpis pro quo ponit̃ hec regula. Si fiat diuiſio re^a medy difformis: qualrcũqƺ difforme fuerit in cõparatiõe ad potẽtias motiuas limitato tpe ſubcõtrarys ad illã diuiſionẽ requiſitis verificatis re^a po^c idebilitabilis eſt ſuſtinẽda ps affirmatiua: ꝛ re^a debilitabilis ps negatiua vt ſi fiat talis diuiſio a.b.mediũ difforme in hora ab aliq̃ indebilitabili poterit ptrãſiri ꝛ nõ a quolƺ.g̃ vel eſt dare minimã po^{am} a qua in hora poterit ptrãſiri vel maximã a qua nõ. Dõm eſt q̃ eſt dare minimã po^{am} indebilitabileƺ a q̃ poterit ꝛ maximaƺ po^{am} debilitabileƺ a q̃ nõ poterit.p^a ps pƺ.Eſt.n.dare vnã po^{am} que in hora adeq̃te illud mediũ ptrãſiret mouẽdo ſƺ vltimũ ſue po^c vt pſtat:tũc ex quo illa mouebit ſƺ vltimũ totũ in hora trãſiens nulla minor põt totuƺ in hora ptrãſire. Ois.n.minor tardi^9 moueret̃. Jõ i^a eſt minia po^a idebilitabilis q̃ totũ in hora ſufficit ptrãſire.pƺ g̃ p^a ps. Et 2ª ſic ar^r. Capiat̃ po^a debilitabilis ipſi po^c idebilitabili eq̃lis:ꝛ ſeqt̃ q̃ illa nõ põt in hora ptrãſire totũ.b. Sed ois maior illa põt:illa.n.nõ põt:q2 mouendo debilitat̃. Et ois maior põt:q2 quãticũqƺ debilitet̃ po^a maior min^9 poſſet debilitari.igit̃ ſeqt̃ r^a.

2a regula

Silr ſi fiat diuiſio re^a po^c date ſiue limitate in cõparatione ad ptẽ medy difformis qualrcũqƺ difforme fuerit tpe limitato:ꝛ ſubcõtrarys verificatis re^a po^c indebilitabilis ſuſtinẽdo eſt ps affirmatiua. Et ſeqtur q̃ eſt dare maximã ptẽ que ab iſto in tãto tpe poterit ptrãſiri. Et re^a po^c debilitabilis eſt ſuſtinenda ps negatiua: aliqñ ſimplr ꝛ aliqñ cũ determinatiõe. Pria ps pƺ. Et ſit b.mediũ difforme:ꝛ.a.po^a indebilitabilis re^a cui^9 fiat diuiſio:tunc ſi aliquã ptẽ.b.ſufficit ptrãſire ꝛ nõ qualƺ in hora eſt dare maximã ci^9 ptẽ quã in hora ſufficit ptrãſire. Aliq̃ eniƺ eſt ps quã in hora ptrãſiret ſƺ vltimũ ſui vt notũ eſt. Jõ taleƺ ptẽ hui^9 medy ſufficit ptrãſire in hora ꝛ nõ maioreƺ:ideo iſta eſt maxia ꝛ i^a eadeƺ eſt ſimplr minima q̃ nõ in aliq̃ caſu:ꝛ in aliquo nõ eſt ſimplr minima que nõ: ſed cũ certa determinatiõe. Pria ps pƺ in caſu.vbi iſta po^a indebilitabilis ptrãſeũdo ptẽ iſti^9 medy in hora nõ remitteret motũ ſuũ ad nõ g^m:q2 tunc po^a debilitabilis alteri po^c indebilitabili eq̃lis oẽm pteƺ iſti^9 ptis que eſt maxima re^a po^c date idebilitabilis ſufficit ptrãſire in hora vt notũ eſt: q2 quãticũqƺ modice debilitet̃ minus poſſet debilitari:ꝛ totã pteƺ iſtã nõ poterit ptrãſire: q2 debilitat̃ in mouẽdo: g̃ i^a ps eſt ſimplr minima ꝛc. Pƺ g̃ p^a ps regle. 2ª pars ẽt pƺ in caſu vbi po^a idebilitabilis in trãſeũdo maximã ptẽ eiuſ remittet motũ ſuũ ad nõ gradũ.hec eniƺ ps ptrãſeunda terminat̃ ad g^m mobilis.ſ. iſti^9 po^c indebilitabilis: ꝛ ſi ſic po^a iſtius po^c indebilitabili eq̃lis nullã pteƺ terminatã ad extremũ inteſius illi^9 ptis ſufficit ptrãſire:ꝛ ideo nõ eſt dãda ſimplr vt p̃dictũ eſt:eo q̃ ex quo debilitat̃ ad aliquẽ punctũ illi^9 ptis hẽt ppor^{nis} eq̃litatis anteq̃ ad extremũ deueniret:io falſum eſt q̃ oẽm ptẽ minorẽ illa pte maxia quã ſufficit po^a data indebilitabilis ptraſire põt etiaƺ po^a debilitabilis ptrãſire:ꝛ iõ nõ eſt dãda ſimplr minima ps que nõ ꝛc.ſed cũ certa determiatiõe.ſ.q̃ eſt dare minimã ptẽ iſti^9 medy termiati ad pũctũ inceptiõis mot^9 quã nõ ſufficit trãſire in hora:ꝛ i^a eadẽ ps eſt maxia re^a po^c idebilitabilis ꝛc. Nota q̃ qñcũqƺ re^a po^c indebilitabilis eſt aſſignare pteƺ affirmatiuã eſt limitatio tpis pñs: ꝛ ecõtra qñcũqƺ limitat̃ tps cũ limitatiõe reſiſtẽtie difformis ſiue vniformis re^a po^c idebilitabilis,eſt dare ptẽ affirmatiuã. Itẽ notãduƺ q̃ qñcũqƺ re^a po^c indebilitabilis eſt dare minimũ qđ nõ põt id ideƺ erit minimũ qđ nõ põt po^a debilitabilis illi po^c idebilitabili eq̃lis ſiue tps limitet̃ ſiue nõ. Et vbi eſt dare maxi^m re^a po^c indebilitabilis tpe limitato eſt minimũ qđ nõ re^a po^c debilitabilis ſibi eq̃lis. Et ſi tps nõ limitet̃ ꝛ det̃ maximũ re^a po^c indebilitabilis illud ideƺ erit minimũ q̃ nõ re^a po^c debilitabilis ſibi eq̃lis:niſi forte fiat diuiſio in cõparatiõe ad ptes medy difformis v^l eſt dare vnã ptẽ in qua nõ remittet motũ ad nõ g^m ſucceſſiue:ſƺ rõne reſiſtẽtie alteri^9 ptis vlteri^9 nõ ſufficiat mouere:ſicut pƺ in p^a pte regle ſcde:q2 in tali caſu eſt dare maximaƺ pte illi^9 medy tã re^a po^c debilitabilis q̃ indebilitabilis p has reglas. Si in caſu aliq̃ quereret̃ hõ diuiſio p trãſitionẽ ſpaty cõcernẽs ſiue me^m vnifor^e fuerit vel diffor^e ſiue tẽpore limitato:ſiue nõ,miſſio eyci poterit ſatis clara. Intelligẽduƺ eſt ẽt qñcũqƺ fit diuiſio in cõparatiõe ad po^{am} determinatã re^a medy determinati in cõpatione ad tps vlr re^a po^c idebilitabilis eſt dare minimũ tps in q̃ ab iſta illud me^m poterit ptrãſiri:ſiue me^m diffor^e fuerit ſiue vniforme:ꝛ id ideƺ tps erit maximũ in quo a po^a debilitabili illi equali illud mediuƺ poterit pertrãſiri.

Tractatus vndecimus de loco elementi.

Cum omni elemẽto locus aliqs nãlr cõueniat oibuſqƺ corporibus euſdẽ ſpẽi idẽ põt dubitari:nũqd exiſtẽte vna pte terre vltra cẽtrũ,reſiſtat ad tot^9 deſcenſum ſeu ad deſcẽſuƺ ptis citra centrum. Et q̃ nõ ar^r ſic. Dato iſto ſeq̃ret̃ q̃ terra vniformis mouens in medio pleno nõ poſſet deuenire ad centrũ dedu[c]tis iuuamẽtis extrinſecis:ita q̃ cẽtrũ ci^9 fiat centrũ mũdi: q2 ſi ſic iſinita modica cẽt aliqñ pportio ptis citra centrũ ad ptẽ vltra cẽtrũ:ꝛ pter h̃ a me^o hẽet certã reſi^{ã}: g̃ anteq̃ cẽtrũ ei^9 fieret cẽtrũ mũdi,cẽt ppor^o eq̃litatis ꝛ ẽt minoris ineq̃litatis inter po^{as} motiuã ꝛ totã po^{as} reſi^{as}:quouſqƺ g̃ cẽtrũ ei^9 fieret cẽtrũ mũdi,nõ moueret̃:g̃ ſeqt̃ pñs. Item ſc^r q̃ lƺ cẽt vacuũ vndiqƺ citra cẽtrũ vl me^m nõ reſiſtẽs:ꝛ vna ps foret ex vna pte cẽtri ꝛ alia ps minor foret ex alia pte cẽtri:ita q̃ illõ moueret̃ pti^c ſm ppor^{nes} ptis citra centrũ ad ptẽ vltra cẽtrũ,nunq̃ poſſƺ deuenire ad cẽtrũ:ita q̃ ei^9 me^m fieret me^m mũdi. Ad cui^9 pbatione ſupponat̃ q̃ ſi iter aliq̃ ſit ppor^o maioris ineq̃litatis ꝛ 4^a ps exceſſus maioris ſupra min^9 auferat̃ a maiori ꝛ addat̃ minori: tũc iter illa in fine erit ppor^a minor q̃ ſubdupla ad pportionẽ exiſteƺ iter iſta duo in pn^o. Tunc.n.exceſſus maioris ſupra min^o miorabit̃ ad ſubdu^m p eq̃lẽ cremẽtũ mioris ꝛ decremẽtũ maioris. Hec ſuppõ arg^r.ad cui^9 pba^{nes} pbant̃ duo nõbilia. Primũ ſi ſint 4^{or} t̃mini pti^e ppor^{lis} arithmetice: pportio maxi^a que.ſ.eſt inter terminos duos minores coꝝ quatuor per plus excedit ſcdaƺ pportioneƺ q̃ iſta ſcda excedat tertiã q̃ eſt minia illaꝝ triũ ppor^{nus} que ſunt inter illos quatuor terminos:vt ſi iſti eſſent q̃tuor termini continue ppor^{les} arithmetice ſicut.vij.vi.v.iiij.tunc inter.v.ꝛ quatuor eſt maior pportio q̃ iter.vi.ꝛ.vij. Ideo pbanduƺ eſt q̃ pportio.v.ad.iiij. per maiorẽ pportioneƺ

Regula proportionis.

excedit ꝓportionē.vi.ad.v. q̄ȝ iſta proportio.vi. ad.v.excedat ꝓpor^nez.vij.ad.vi.Et ꝑmo ar^r in iſtis terminis:ꝛ deinde ad idē gnāl'r.Sit eniȝ.e.termin^9 ſe hñs ad.v.vt.v.ſe hȝ ad iiij.ſ.in ꝓpor^ne ſexquartā:ꝛ ſeqꝭ ꝙ.e.cōtinet.vi. ꝛ quartā vnitatis ꝑ vnā ꝓpōnē ꝓbatā:vbi ꝑmo tāgiꝭ de motu lo/cali.Si ad duos terminos incq̄les ſint ꝓpor^nes eq̄les ſicut vn^9 eſt alio maior:ita eſt exceſſus termini ad terminū illū maiorem cōparati.Ponaꝭ ergo ꝙ.f.ſe hēat ad.vi.ſicut.vi. ad.v.vȝ in ꝓpor^ne ſexquigntā:ꝛ ſeqꝭ per regulā allātam ꝙ.f.ꝯtinet.vij.ꝛ.v.ꝑtē vnitatis. Ex his ſic ar^r. Propor^o.e. ad.v.excedit ꝓportionē.vi.ad.v. per ꝓpor^nem.e. ad.vi.co ꝙ ꝓpor^o.e.ad.v.componiꝭ ex ꝓpor^ne.e.ad.vi.ꝛ.vi.ad.v.ꝛ ꝓpor^o.v.ad.iiij.eſt eq̄lis ꝓportioi.e.ad.v.per poſitū:ergo ꝓpor^o.v.ad.iiij.excedit ꝓpor^nem.vi.ad.v. per ꝓportionem e.ad ſex. Et ſimil'r ꝓportio.f. ad ſex excedit ꝓportionem vij.ad.vi.per ꝓpor^nem.f.ad.vij.ſed ꝓportio.e.ad.vi.eſt maior q̄ȝ.f.ad.vij.quia.e.excedit.vi. plus q̄ȝ.f. excedat.vij. vt pȝ:ꝛ.e.eſt termin^9 minor q̄ȝ.f.ḡ ꝓpor^o.e.ad.v.excedit proportionē.vi.ad.v.per ꝓpor^nem maiorē q̄ȝ ꝓportio.f.ad.vi. excedat ꝓpor^nez.vij.ad.vi. cū ergo ꝓpor^o.v.ad.iiij. ſit eq̄lis ꝓportioni.e.ad.v.per caſū:ꝛ ꝓportio.vi.ad.v.eſt eq̄lis ꝓportioni.f.ad.vi. Pȝ ꝙ ꝓpor^o.v.ad.iiij. per maiorem ꝓportionē excedit ꝓpor^nem.vi.ad.v.q̄ȝ ꝓpor^o.vi.ad.v.excedat ꝓpor^nem.vij.ad.vi.Et in iſto exēplo pȝ veritas iſti^9 notabilis. ¶ Eadem ḡ regula gnāl'r ar^r ſic.Sint.a.b.c.d.q̄tuor hꝰ termini ꝯtinue arithmetice ꝓpor^les:ita q^o.a.termin^9 ſit minus:ꝛ.d.maius vel maxim^9.Et ar^r ꝙ ꝓpor^o.b.ad.a.per ꝓpor^nem maiorē excedit ꝓpor^nem.c.ad.b. q̄ȝ ꝓportio.c.ad b.excedat ꝓpor^nez.d.ad.c. Deꝭ eniȝ.e. termin^9 qui ſe hēat ad.b.ſic.b.ſe hȝ ad.a.ꝛ ſit exceſſus oīuȝ.g.inter iſtos q̄tuor terminos:ꝛ notū eſt ꝙ.e.eſt maius.c.eo ꝙ ꝓportio.c.ad.b. eſt minor ꝓportione.b. ad.a.ſicut ḡ.b. eſt maius.a. ita exceſſus.e.ſup.b.eſt maior exceſſu.b.ſupra.a.per regulā precallegatā.Sit ḡ.f.ſe hñs ad.e. ſicut.e. ſe hȝ ad.b. ꝛ ſequiꝭ ꝙ ꝓpor^r ſicut.e.eſt maius.b.ita exceſſus.f.ſupra.e. eſt maior exceſſu.e.ſup.b.Cum ḡ maior ſit ꝓpor^o.b. ad.a.q̄ȝ.c.ad.b. ſeqꝭ ꝙ exceſſus.e.ſup.b.ſe hȝ in maiori ꝓportiōe ad.g.exceſſuȝ q̄ȝ exceſſus.f.ſupra.e.ſe hȝ ad.g.exceſſuȝ : ꝛ ſi ſic per plus excedit.e.b.q̄ȝ.f.e.ꝯña ſatis pȝ:q2 oē qd ſe hȝ ad aliqd in maiori ꝓpor^e:ideȝ eſt maius illo qd ſe hȝ ad idē in minori ꝓportiōe.Cuȝ ḡ iter.c.b.ſit.g.exceſſus ꝛ inter.c.d. ſil'r ſeqꝭ ꝙ.e.plus excedit.c.q̄ȝ.f.excedat.d.ꝛ.c.eſt min^9.d.ergo ꝓpor^o.e.ad.c.eſt maior ꝓpor^ne.f.ad.d.ꝯña tȝ:q2 ſi eſſet eq̄lis exceſſus ꝑciſe.e.ſup.c.ꝛ.f.ſupra.d. ꝓpor^o.e. ad.c.eēt maior ꝓpor^ne.f.ad.d.per h ꝙ ex eq̄li exceſſu iter minora reſultat ꝓpor^o maior q̄ȝ inter maiora:ḡ a fortiori qn̄ maior eſt exceſſus.e.ſup.c.q̄ȝ.f.ſup.d.erit iter.e.c.maior ꝓpor^o q̄ȝ inter.f.d.Cuȝ ḡ ꝓpor^o.e.ad.b.excedat ꝓpor^nez.c.ad.b. per ꝓpor^nez.e.ad.c.q2 tota ꝓpor^o.e.ad.b.cōponiꝭ ex ꝓpor^ne.e. ad.c.ꝛ ex ꝓpor^ne.c.ad.b.Et ſil'r ꝓpor^o.f.ad.e.excedit ꝓportionē.d.ad.c.per ꝓpor^nez.f.ad.d.ḡ ꝓpor^o.e.ad.b.ꝑ maiorē ꝓportionē exce^t ꝓpor^nem.c.ad.b.q̄ȝ ꝓpor^o.f.ad.e. excedat ꝓpor^nem.d.ad.c.ꝛ eq̄lis eſt ꝓpor^o.b.ad.a. ſicut.c.ad.b. per poſitum:ꝛ equalis ēt eſt proportio.e.ad.b. ſicut.f.ad.e.per poſitū.Seqꝭ ḡ ꝙ ꝓpor^o.b.ad.a.exce^t ꝓportionez.c.ad.b. ꝓpor^nem per maiorē ꝓportionē q̄ȝ ꝓpor^o.c.ad.b. excedat d.ad.c.ꝯña tȝ ꝑ h:ſi ſint duo eq̄lia qūcūqȝ 3m ab illis duobus eq̄l'r excedeꝭ.Et ſic ar^r de iſtis q̄tuor termis.a.b.c.d. ita de oīb^9 alijs eſt arguēduȝ.ḡ ſeqꝭ ꝯ. ¶ Scōm ſupponēduȝ eſt h.Si ſint.iiij.ꝯtinue ꝓpor^les ꝓpor^ne arithmetica cōtinue:ꝑm ꝛ vlt^m alijs duob^9 intermedijs eſt eq̄le q̄tuis hoc dicaꝭ a Boetio in arithme^ca ſua.hic tn̄ idē demōſtrat.Ex q̄ oīa.n.illa.iiij.ſunt ꝯtinue ꝓpor^lia arithme^ce:idem erit eq̄l'r me^m inter ꝑm ꝛ vlt^m ad me^m inter zm ꝛ 3m,vocādo maximū illoꝝ ꝑm iſtoꝝ:q2 ꝑm illoꝝ eq̄l'r excedit zm ſicut 3m quartū iſtoꝝ.ſit ḡ.d.me^m inter ꝑm ꝛ vlt^m ꝛ ēt inter zm ꝛ 3m:ꝛ tūc ſic arguiꝭ.d.eſt me^m inter ꝑm ꝛ 4m:ꝛ oē cōpoſitū ex duab^9 inequalib^9 eſt ꝑciſe du^m ad me^m inter illa: vt ꝓbaꝭ in z^a ſuppoſitiōe ꝯnis.xxxvi.de motu locali:ergo ꝑm ꝛ 4m ꝯſtituūt du^m ad.d.ꝛ ſil'r zm ꝛ 3m ꝯſtituūt du^m ad.d.q2.d. eſt mediuȝ inter iſta:ḡ ꝑm ꝛ 4m ſunt eq̄lia z^o ꝛ 3°:quia aggregatum ex vtriſqȝ du^m ad.d.ꝯſtituit.pȝ ḡ regula. ¶ Ex h deduciꝭ 3m ꝓbāduȝ ad ꝓbationē ꝑmi notabilis vȝ.Si ſint.iiij.quoꝝ ꝑm per plus exce^t zm q̄ȝ zm 3m:ꝛ zm per plus excedit 3m q̄ȝ 3m 4m:ꝑm ꝛ 4m ꝯſtituūt plus q̄ȝ zm ꝛ 3m: q2 inter illos terminos ſunt tres exceſſus.ſ.vn^9 inter ꝑm ꝛ zm : ꝛ alius inter zm ꝛ 3m:ꝛ alius iter 3m ꝛ 4m:quoꝝ ꝑm^9 eſt maxim^9.ſ.inter ꝑm ꝛ zm:ꝛ 3m eſt minim^9.ſ.inter 3m ꝛ 4m:ḡ exceſſus iter ꝑm ꝛ zm eſt plus q̄ȝ 3^a ps toti^9 exceſſus:ꝛ exceſſus iter 3m ꝛ 4m eſt minor q̄ȝ 3^a ps toti^9 exceſſus:qui eſt iter ꝑm ꝛ 4m.Pōaꝭ ergo ꝙ ſtātib^9 ꝑmo ꝛ 4° fiat variatio ſcōi ꝛ tertij:ita ꝙ illi quattuor termini fiant cōtinue ꝓportionales arithmetice: ꝛ ſequiꝭ ꝙ in fine exceſſus inter ꝑm ꝛ zm erit 3^a pars totius equal'r exceſſus:ꝛ ita erit de exceſſu inter zm ꝛ 3m:ꝛ inter 3m ꝛ 4m.Cuȝ ḡ inter ꝑm ꝛ zm ſit in ꝑncipio plus q̄ȝ tertia pars toti^9 exceſſus ſtante ꝑmo:ꝛ etiā toto exceſſu eq̄li : ergo zm debet maiorari.Et ſimil'r arguiꝭ ꝙ 3m debet maiorari : q2 inter 3m ꝛ 4m nūc nō eſt tertia pars totius exceſſus:ꝛ tunc in fine erit inter illa.ſ.ꝑmū ꝛ zm:erit tertia ps totius exceſſus ſtantib^9 ꝑmo ꝛ quarto.Sequiꝭ ḡ ꝙ zm ꝛ 3m maiorabūtur:ꝛ in fine erunt illa duo eq̄lia ꝑmo ꝛ quarto per regulā ꝓximā:ergo nūc conſtituūt min^9 q̄ȝ ꝑmū ꝛ quartū qd fuit ꝓbanduȝ. ¶ Ex his ꝑmū notabile cōcludiꝭ. Signenꭲ.n. duo inter que ſit ꝓportio maioris incq̄litatis : quoꝝ.a.ſit maius ꝛ.b.minus : ꝛ dividaꝭ totus exceſſus inter.a. ꝛ.b.in quartas:ꝛ ſeqꝭ ꝙ erūt termini gnqȝ ꝓportiōalis arithmetice.ſ. gradus icipiēs ꝑmā quartā ꝛ gradus terminās eādem:ꝛ incipiēs ſcōaȝ quartā ꝛ terminās eandeȝ ꝛ incipiēs tertiā ꝛ gradus terminās tertiā ꝛ icipiēs vltimā ꝛ gradus terminās vltimā:oēs iſtos terminos accipiēdos his exceptis terminis extremalib^9 toti^9 latitudinis ſicut diviſa latitudine inter.viij.ꝛ.iiij.in quartas habebunꭲ gnqȝ termini cōtinue ꝓportionales.ſ.viij.vij.vi.v.iiij.inter quos ſunt quattuor exceſſus equales. Et per ꝯñs ꝓportio inter duo minora illoꝝ quinqȝ terminoꝝ excedit ꝓportionez inter 3m ꝛ zm,vocādo ꝑmū minimū illoꝝ per maiorē ꝓportionem q̄ȝ ꝓportio inter 3m ꝛ zm excedat ꝓportionem quarti ad tertiū vt vult ꝑma illaꝝ trium regulaꝝ.Et ſic per eandem regulaȝ ꝓportio tertij ad ſcōm excedit ꝓportionem quarti ad tertiū per maiorē ꝓportionē: q̄ȝ ꝓportio quarti ad tertiū excedat ꝓportionē quinti ad quartū. Ergo inter iſtos gnqȝ terminos ſunt q̄tuor ꝓportiōes.ſ. vna inter zm ꝛ ꝑmū:ꝛ alia inter 3m ꝛ zm:ꝛ tertia inter 4m ꝛ 3m : ꝛ quarta inter 5m ꝛ 4m.Quaꝝ ꝓportio maxima que vocaꝭ ꝑma.ſ. iter ſcōm ꝛ ꝑmū per plus excedit ſcōaȝ ꝓportionē:que eſt inter 3m ꝛ zm q̄ȝ iſta ſcōa ꝓportio excedat tertiā ꝓportionem que eſt inter 4m ꝛ 3m.Simil'r illa ſcōa proportio per plus excedit tertiā q̄ȝ tertia quartā:que.ſ.eſt inter 5m ꝛ 4m. Ergo per tertiā illaꝝ regulaꝝ ꝑma iſtaꝝ quartaꝝ ꝓportionū que eſt maxīa ꝛ vltima ꝓportio iſtaꝝ que eſt minīa ꝯſtituūt maiorē ꝓportionē q̄ȝ ſcōa ꝓportio ꝛ tertia:ꝛ tota ꝓportio inter.a.b.ꝯtinet ꝑciſe iſtas quattuor ꝓportiones:ꝛ ex his cōponiꭲ.ḡ ꝑma illaꝝ ꝓportionū que.ſ.eſt inter terminos quarte remiſiſſime latitudīs inter.a.ꝛ.b.ꝛ minima ꝓportio iſtaꝝ q̄tuor que eſt inter terminos quarte iſti^9 latitudinis intenſiſſime conſtituūt plus q̄ȝ medietatē totius ꝓportionis inter.a.ꝛ.b.ꝛ iſte due ꝓportiones inter.a. ꝛ.b. deperdenꭲ : ḡ in fine nō remanebit medietas toti^9 ꝓportionis prehabite.ꝯña ſatis pȝ:ꝛ minor arguiꭲ.ſ.ꝙ iſte due proportiones.ſ.maxima ꝛ minima illarum quattuor pre/

Regula ꝓportionā.

Probat regula iſtr.

Scōȝ ſupposiu ꝛ ē regula hōe in mā proportionā.

S.ind ſuppoſitum.

Deductio primi notabilis.

ꝓportionum deperdent inter.a.⁊.b.qa.b. creſcit per vnam quartā totꝰ exceſſus per añs iſtius notabilis: ergo per crementū.b.lʒ.a.ſtaret deꝑderet iſta ꝓportio maxima iſtaꝝ quattuor:qꝛ illa eſt inter terminos iſtius quarte per quā.b. creſcet:⁊.a.decreſcet per q̄rtā maximā illꝰ exceſſus inter cuiꝰ extrema eſt illa minima ꝓporꝰ illaꝝ q̄tuor ꝓportionū. ergo rõne decremēti.a. deperdeſ minima illaꝝ q̄tuor ꝓportionū:⁊ ſic rõne cremēti.b.⁊ decremēti.a.deꝑdent iſte due ꝓpornes.Uel breuiꝰ.a.decreſcit per vnā quartā iſtius exceſſus:⁊.b.creſcet per vnā quartā:g̃ inter.a.b.tūc ſolum remanebūt iſte due ꝓportiões intermedie:que illas duas q̄rtas intermedias exceſſus ſequūſ.Et ſi ſic iſte due ꝓportiones maxĩa ⁊ minĩa deꝑdent inter.a.⁊.b.que alijs duabus intermedijs ſunt maiores vt argutū eſt:g̃ tota ꝓporꝰ inter.a.b.eſt plus q̄ȝ dupla ad ꝓpornes que in fine remanebit inter illa que fuit p̃ma notabilitas ⁊ ſuppoſitio intēta: vʒ/ſi iter aliqua duo ſit ꝓportio maioris inequalitatis:quoꝝ maius decreſcet per quartā totꝰ exceſſus ⁊ minꝰ creſcet ꝑ talem quartā:tota proportio reſultās fiet in fine minor q̄ȝ ſubdupla ad ꝓportionē prehabitā. ¶ Per eundē modū pōt argui ꝙ ſi exceſſus iter termīos aliquos minoreſ per quartā totꝰ per eq̄le crementū minoris ⁊ decremētū maioris plus q̄ȝ q̄rta pars totꝰ ꝓportionis inter illa deꝑdeſ ⁊ vliter minorato exceſſu inter ineq̄lia per eq̄le cremētuʒ vnius ⁊ decrementū alterius.ſ.maioris:maior ꝑs aliquota totius ꝓpornis deperdeſ q̄ȝ eſt ꝑs iſta aliquota totꝰ exceſſus que deꝑdeſ.Quia ſicut ꝓbatum eſt qñ ſunt q̄tuor termini cõtinue ꝓporles arithmetice:primꝰ ⁊ vltimꝰ ꝯſtituūt medietatē totꝰ aggregati ex illis q̄tuor:ita ſi eſſet octo cõtinue ꝓporles arithmetice prius ⁊ vltimꝰ ꝯſtituerēt q̄rtam totius:⁊ ſi eſſent.xvi.ſic ꝯtinue ꝓportiõabilia arithmetice p̃mus ⁊ vltimꝰ ꝯſtituerēt octauā ꝑtē totꝰ: ⁊ ſic in infinitū.

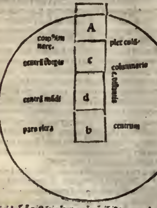
¶ Itē quotcūq; termini ꝓportionātur pares vl' ipares h̃ modo vʒ ſi eq̄lis ſit exceſſus inter eos:ita tñ ꝙ numerꝰ notus de figuris.ſ.quot ſunt termini ꝓportionati ſit par:p̃m ⁊ vltimū cõſtituūt ꝑteʒ totꝰ aliquotā denoiatā mō ſubduplo ad numerū oīuʒ adinuicē ſm̃ illaʒ ꝓpornem arithmeticam ꝓportionatoꝝ.Sicut in exēplo ſunt iſti octo termini ꝓporles arithmetice.viij.vij.vi.v.iiij.iij.ij.i.⁊ ꝓbaſ ꝙ totū cõtinet.xxxvi.ſ.aggregatū ex oībꝰ⁊ p̃mū ⁊ vltimū:intelligēdo per p̃m maximū ⁊ vltimū minimū cõſtituūt adequate nouē que ſunt q̄rta ꝑs totꝰ numeri vʒ.xxxvi. Iſtud pʒ per additionē iſtoꝝ numeroꝝ adinuicē. ¶ Itē ponaſ exēplū vbi ſunt.vi.termini ſic ꝓportionati:⁊ ſeq̄ſ ꝙ p̃m ⁊ vltimū cõſtituūt tertiā ꝑteʒ totius ſicut ſunt iſti termini.vi.v.iiij. iij.ij.i.Oēs eniʒ iſti termini ſimul additi cõſtituent.xxi.vt pʒ per additionē illoꝝ adinuicē.Et p̃mꝰ terminꝰ ⁊ vltimꝰ cõſtituent.vij.que ſunt tertia pars iſtius numeri.xxi.Et ſic vbi ſunt octo termini:⁊ ſic in infinitū inuenies. ¶ Hoc ſic demõſtraſ.Sint octo termini adinuicē ꝓportionati cõtinue ꝓportione arithmetica:⁊ ſeq̄ſ ꝙ cõpoſitū ex primo ⁊ vltimo erit eq̄le cõpoſitū ex ſcdo ⁊ penultimo ⁊ etiā eq̄le cõpoſito ex tertio ⁊ antepenultimo etiaʒ eq̄le cõpoſito ex quarto ⁊ q̄nto.Mediuʒ.n.inter 4^{m} 5^{m}/eſt mediuʒ iter oēs alios terminos ſic adinuiceʒ cõpoſitos:qꝛ q̄ntū eq̄lr excedit vltimū:ſicut p̃mū excedit 4^{m}. Primū.n.excedit q̄rtuʒ per tria illoꝝ exceſſuū:qꝛ vnus exceſſus eſt inter p̃m ⁊ 2^{m}: ⁊ alius inter 2^{m} ⁊ 3^{m}:⁊ tertius inter 3^{m} ⁊ 4^{m}: ⁊ tot exceſſus erūt inter q̄ntū ⁊ vltimū:qꝛ vnus inter 5^{m} ⁊ 6^{m}:⁊ alius iter 6^{m} ⁊ 7^{m}:⁊ tertius inter 7^{m} ⁊ 8^{m}:⁊ oēs iſti exceſſus ſūt eq̄les p̃mo:ergo p̃mū excedit mediū inter 4^{m} ⁊ 5^{m} per tres illoꝝ exceſſuū ⁊ medietatis vniꝰ:⁊ ita ideʒ mediū excedit vltm per ꝑargūta:ergo mediū inter p̃m ⁊ vltm eſt ideʒ medio inter 4^{m} ⁊ 5^{m}.Conſilr arguiſ ꝙ 2^{m} excedit ideʒ mediū inter 4^{m} ⁊ 5^{m} per duos illoꝝ exceſſuū ⁊ per medietatē vniꝰ:⁊ ita idē mediū excedit terminū penultimū vt cõſtat. Sili tertius terminꝰ excedit ideʒ mediū inter 5^{m} ⁊ 4^{m} per vnū illoꝝ exceſſuū:⁊ per medietatē vnius illoꝝ exceſſuū: ⁊ ita ideʒ mediū excedit antepenultimū. Pʒ g̃ ꝙ inter oēs illos terminos limitatos ideʒ eſt mediuʒ: ⁊ oē cõpoſitū ex duobus:ſiue equalibꝰ:ſiue ineq̄libꝰ eſt dupluʒ ad mediū inter illa:g̃ oīa illa cõpoſita diuiſiue accipiēdo ly oīa/conſtituūt dupluʒ ad idem mediū.Qolʒ ergo illoꝝ cõpoſitoꝝ alteri eſt eq̄le:⁊ ſunt q̄tuor talia compoſita:qꝛ octo ſunt termini quoꝝ duo ſemꝑ adinuicē cõponunſ: g̃ qolʒ illoꝝ cõpoſitoꝝ eſt 4^{a} totꝰ aggregati ex oībꝰ:⁊ ſic p̃m ⁊ vltm cõſtituūt quartā totꝰ:⁊ ſic quotcūq; eſſent hꝰ termini adinuicē ꝓportionati ꝯtinue ꝓportiõe arithmetica:p̃m ⁊ vltimū cõſtituent ꝑteʒ totꝰ aggregati ex oībus iſtis terminis denoiatā numero ſubduplo ad numerū oīuʒ illoꝝ terminoꝝ. ¶ Ex hoc deduciſ ꝙ quotcūq; fuerint termini ꝓporles arithmetice ꝑtes: quoꝝ exceſſus p̃mꝰ.ſ.inter maxīos terminos ſit maximꝰ:⁊ tunc ſit ſic ꝙ ſemꝑ inter terminos minores ſint exceſſus minores q̄ȝ inter terminos maiores: primꝰ terminus ⁊ vltimꝰ cõſtituūt ꝑteʒ totꝰ aggregati ex oībꝰ denoiatam numero maiori q̄ȝ eſt numerꝰ ſubduplus ad numerū oīuʒ illoꝝ terminoꝝ:ſicut pōt ꝓbari per mōm quo probabaſ de illis quattuor termīs in p̄ notabili dicto. Vbi gr̃a. ſi eſſent octo termini adinuiceʒ ꝓportionati mō dicto:ita ꝙ maior eſſet exceſſus p̃mi ſupra 2^{m} q̄ȝ ſcdi ſupra 3^{m}:⁊ ita deincepsꝑ p̃mū ⁊ vltimū cõſtituēt plus q̄ȝ quartā totꝰ cõpoſiti ex oībꝰ illis terminis. ¶ Ex his ꝯduciſ ꝙ qñcūq; per cremētū minoris ⁊ decremētū maioris eq̄ue iter illa aliq̄ minoraſ exceſſus velociꝰ ꝓportiõabilr minoraſ ꝓportio q̄ȝ exceſſus:vt ſi 4^{a} ꝑs exceſſus deꝑdereſ plus q̄ȝ 4^{a} ꝑs totꝰ ꝓpornis deꝑdeſ:⁊ ſic in ſim. Si.n.4^{a} ꝑs exceſſus ꝯꝑdereſ ꝑ minorationē eq̄uelocē maioris:⁊ minoris maiorationē h̃ mō.ſ.vt per minorationē maioris deꝑdaſ octaua pars exceſſus:⁊ minoris maiorationē alia octaua: tunc diuidatur totꝰ exceſſus in octauas:⁊ ſeq̄ſ ꝙ termini erūt nouē inter quos erūt illi octo exceſſus eq̄les:⁊ per ꝯñs inter/illos terminos erūt octo ꝓportiones:quaꝝ illa que ēēt inter terminos minimos illoꝝ nouē erit maxĩa ꝓportio per maioreʒ ꝓportionē excedens ꝓportionē ſcdaʒ:que.ſ.eſt iter tertiū ⁊ ſcdm vocādo p̃m terminuʒ minimū q̄ȝ iſta ſcda excedat ꝓportionē tertiā:que.ſ.eſt quarti ad 3^{m} per regulaʒ p̃mā: ⁊ ita eſt de alijs:g̃ inter illos nouē terminos erunt octo ꝓportiões:quaꝝ p̃ma ⁊ vltima.i.maxĩa ⁊ minima ꝯſtituent plus q̄ȝ quartā totꝰ ꝓpornis ex oībꝰ illis octo ꝓportionibꝰ cõpoſite:⁊ iſta eſt ꝓportio tota inter illa duo adinuicē ꝓportionata: ⁊ ꝓportio aggregata ex minima ꝓportione ⁊ maxĩa illaꝝ octo deꝑdeſ:qꝛ minus illoꝝ duoꝝ terminoꝝ creſcet per maximā illaꝝ ꝓportionū:⁊ maior illoꝝ decreſcet per minimā illaꝝ octo ꝓportionū:g̃ ſequiſ ꝙ plus q̄ȝ q̄rta pars totꝰ ꝓpornis deꝑdeſ:⁊ ſolūʒ 4^{a} pars totius exceſſus deꝑdeſ:ergo velociꝰ ꝓportionabilr minorabiſ ꝓportio q̄ȝ exceſſus.Conſilr arguēduʒ eſt: quātacūq; fuerit pars exceſſus deꝑdita/ſemꝑ diuidendo totuʒ exceſſum in tot ꝑtes quotiēs medietas exceſſus deꝑdita inueniſ in toto exceſſu:vt ſi octaua ꝑs exceſſus deꝑdaſ medietas iſtiꝰ deperditi ⁊c.erit ꝑs 16^{a} totius.Et ideo diuidaſ totꝰ exceſſus in.xv.ꝑtes eq̄les ⁊ inuenient.xvi.ꝓportiões correſpondentes illis exceſſibꝰ:ita ꝙ ſemꝑ inter iſtos termīos maiores erit ꝓportio minor:⁊ oīs illaꝝ ꝓportionū mediaꝝ erit minus excedens ꝓpornem ſibi imediatā inter terminos maiores imediatos:cõtra illa ꝓportio excedeſ a ꝓportiõe iter terminos imediatos minores per regulaʒ:⁊ ſic maxĩa ꝓporꝰ illaꝝ.xvi.⁊ minima ꝯſtituent plus q̄ȝ octauā totꝰ ꝓpornis: ⁊ ideo plus q̄ȝ octaua totꝰ ꝓpornis deꝑdeſ: ⁊ ſic ſi deꝑderetur 16ª pars totius exceſſus:diuidatur totus exceſſus in partes.

Regla ꝓportionū.

Regla ꝓportionū.

Probatur medium.

proportionē quarū quelibet ſit.32.pars totius exceſſus: ⁊ ſequitur ꝙ plus ꝙ̃ 16a pars totius ꝓportionis deperdet. ¶ Per hec manifeſte concluditur ꝙ ſimplex hñs vnā partē vltra cētrū: ⁊ aliā citra cētrū ipm ad centrū nō poterit deuenire: ita ꝙ medium eius fiat mediū mūdi ſicut eſt ſimplex colūnare: q2 ſi ſic ſit.a. iſta terra cuius medium ſit.c. ⁊ ſit.d. medium mūdi: ⁊ ſit aliq̃ pars vltra centrū: ⁊ vocetur continue tota pars que erit vltra cētrū.b. tunc.c. diſtat a.d. ꝑ certā diſtātiā: que.ſ. eſt medietas totius exceſſus partis citra cētrum mūdi qđ eſt.d. ad partē vltra.d. q2 capiatur iſta pars que eſt citra.ſ. inter.c.d. tunc iſta pars eſt pars medietatis inferioris.a. que diſtātia ſit.e. ſequitur ergo ꝙ tota medietas.a. excedet.b. partē: que eſt vltra cētrum.d. ꝑ tantū quantū eſt.e. ⁊ medietas vna.a. eſt alteri equalis: ergo medietas ſuperior.a. excedit.b. partē ꝑ tantū quantū eſt.e. ⁊ ſic ſequitur ꝙ medietas.a. ⁊ continēs tantū quantū.e. eſt excedūt.b. partem ꝑ tantum quantū continet duo.e. Sed pars.a. citra cētrū.d. eſt medietas ipſius.a. ⁊ pars equalis.e. diſtantie que eſt diſtātia inter.c.d. ergo ſequitur ꝙ tota pars.a. citra.d. excedit totam partē vltra.d. per tantū quantū continet duo.e. ⁊ ſi ſic: ſequitur ꝙ diſtātia inter.c.d. eſt equalis medietati exceſſus partis citra.d. ad partē vltra.d. vbi g. ſi totū eēt quantitatis quadrupedalis: cuius vna pedalis eēt vltra.d. ⁊ tripedale eēt citra. ſequitur ergo ꝙ exceſſus partis citra.d. ad partē vltra eēt bipedale: qđ eſt duplū ad diſtātiam inter.c.⁊.d. que eſt ſolū pedalis. Similiter ſi pedale ⁊ ſemipedale ipſius eēnt vltra cētrū.d. bipedale ⁊ ſemipedale eēnt citra. ergo exceſſus eēt pedalis: ⁊ diſtātia inter.c.d. ſolū eēt ſemipedalis: vt conſtat. Patet ergo generaliter ꝙ ſi alicuius ſimplicis vniformis compōnis ſit vna pars minor ꝙ̃ medietas vltra cētrū mūdi exceſſus partis citra cētrū ſupra partē vltra cētrū erit duplus ad diſtantiam inter cētrū iſtius terre ⁊ cētrū mūdi.



Diuidatur ergo diſtātia inter.c. cētrū ipſius terre: ⁊.d. cētrum mūdi in partes ꝓportionales: ⁊ ſint minores partes verſus.d. ⁊ arguitur ſic per tranſitū prime partis ꝓportionalis iſtius diſtātie a.c. puncto deperdet medietas diſtātie inter.c.d. puncta: ⁊ diſtātia inter.c.d. continue erit equalis medietati exceſſus partis citra cētrū ad partē vltra deperditū: ⁊ que auferet a parte citra.d. centrū addet parti reſidue ꝑ ſe ſic: vt notū eſt. ergo per primam regulā ꝓportio partis citra.d. cētrū ad partē vltra minorabitur vltra ſubduplum. Et ꝑ conſequens motus eius erit tūc remiſſior ꝙ̃ ſubduplus ad ꝓportionem ꝓbabitā ſeu motū ꝓbabitum: ⁊ ſic etiā pertranſita ſecunda parte ꝓportionali iſtius diuiſionis minorabitur exceſſus ad ſubduplum: q2 in omni parte ꝓportionali iſtius diſtātie minorabitur diſtātia inter.c.d. puncta ad ſubduplū: que diſtātia continue erit ſubdupla ad exceſſum partis citra.d. ad partē vltra: ⁊ ſic in principio cuiuſlibet partis ꝓportionalis poſterioris erit motus remiſſior ꝙ̃ ſubduplus ad motum habitū ad principium partis ꝓportionalis iſtius diſtātie immediate precedentis. ergo ſi ſuper quācunq̃ partem ꝓportionalē moueretur gradu ſubduplo ad gradū quo ad principium iſtius mouebatur in nullo tempore finito deueniret.c. punctus ad.d. punctū: ſed nūc ſuper oēm partē ꝓportionalē erit motus tardior ꝙ̃ eſſet tūc: q2 ſuper oēm partē ꝓportionalē remitteretur motus plus ꝙ̃ ad ſubduplū: ergo nūc in nullo tempore finito deueniet.c. punctus ad.d. punctū. Conſequentia iſta nota eſt: ⁊ conſequentia prima etiā patet: q2 ſi ſuper oēs partē iſtius diſtātie moueretur.c. punctus equaliter ſicut mouebitur ad principium iſtius partis: cum quo ſecunda pars ꝓportionalis eſt in duplo minor prima: ⁊ motus in ſecunda eēt minor ꝙ̃ ſubduplus ad motū in prima: maius tēpus requireretur ad pertranſitionē ſecunde partis ꝓportionalis ꝙ̃ ad pertranſitionē prime. Et per idē argumentum maius tēpus requireretur ad pertranſitionē tertie partis ꝓportionalis ꝙ̃ ſecunde: ⁊ ſic in infinitum: ergo tūc in nullo tempore finito tranſiret.c. totā illā diſtātiā. ergo vt prius a multo fortiori nūc nō ſufficit totū pertranſire: qđ fuit ꝓbandum. ¶ Uel ſic arguitur breuius. Ille exceſſus iſtius partis citra.d. ad partē vltra.d. tardius ⁊ tardius ꝓportionabiliter continue diminuetur: ergo in nullo tempore finito deperdetur iſte exceſſus ad nō gradū. Conſequentia tenet: q2 ſi ad nō gradum deperderetur aliquando eſſet aliquantus: ⁊ aliquando ſubduplus: ⁊ aliquando ſubquadruplus: ⁊ ſic in infinitum: qđ nō eēt niſi infinite ꝓportionabiliter diminueretur: vt conſtat. Patet ergo conſequentia: ⁊ antecedens arguitur ſic ꝓportionabiliter ſicut motus erit tardior: ita tardius deperdetur exceſſus: ſed motus velocius ꝓportionabiliter remittetur ꝙ̃ exceſſus: ergo exceſſus tardius ⁊ tardius ꝓportionabiliter remittetur. Conſequentia ꝓbatur: q2 ſi in ea ꝓportione preciſe in qua exceſſus erit minor eēt ſua deperditio minor: tūc vniformiter ꝓportionabiliter diminuetur exceſſus: vt patet. ſed continue ſua deperditio ⁊ motus erit in maiori ꝓportione minor ꝙ̃ eſt in principio ꝙ̃ ille exceſſus vt patet. ergo exceſſus iſte tardius ⁊ tardius ꝓportionabiliter diminuetur. Antecedens patet: q2 per vltimā regulā velocius ꝓportionabiliter minorabitur ꝓportio illarum partiū: quarum.ſ. vna eſt citra.d. cētrū ⁊ alia vltra ꝙ̃ iſte exceſſus: ⁊ eque ꝓportionaliter minorabitur motus cum iſta ꝓportione: q2 motus iſte correſpondet illi ꝓportioni ⁊ continue correſpondebit. ergo velocius ꝓportionaliter continue minorabitur motus ꝙ̃ exceſſus vnius partis ſupra aliā. Patet ergo minor prime conſequentie: ⁊ maior ſic arguitur ꝓportionaliter ſicut motus erit tardior: ita tardius minorabitur pars citra cētrum: q2 nō minorabitur niſi per motū eius: ⁊ eque velociter etiā maiorabitur pars vltra.d. cētrū: ⁊ tota deperditio exceſſus eſt ex maioratione vnius partis: que.ſ. eſt vltra.d. ⁊ ex minoratiōe partis citra.d. ergo eque ꝓportionaliter minorabitur deperditio exceſſus ſicut motus localis illius.c. puncti: ſequitur ergo intentū ꝙ tardius ⁊ tardius ꝓportionaliter minorabitur ille exceſſus: q2 ſi ſic nunq̃ deueniet ad nō gradum. Sed ſi.c. punctus deueniet ad.d. exceſſus iſte ad nō gradum diminueretur: q2 tūc pars citra cētrū parti vltra illud cētrum erit equalis: ergo nunq̃ deueniret.c. ad.d. qđ fuit principaliter intentū. ¶ Quāuis iſte regule precedētes quodāmodo ad portionem huius cōcluſionis ſic ponantur: poſſunt tamen ad multa alia deſeruire.

Deductio 2a breuior

Si cōceditur concluſio principalis ad quam deducitur: ſequitur ꝙ alicuius corporis naturalis eēt appetitus maxime ſibi naturalis omnino ocioſus: qđ enim eſt in ſpecie terre naturaliter appetit cētrū mūdi. Si ergo ad idem nō poſſet deuenire vanus eēt eius appetitus. Conſequens falſum: ergo et quo ſequitur. ¶ Item data cōne ſequitur ꝙ aliquod eſt graue: cuius grauitas ſi maneret intenſo igne in ipſo totū intenderet motū eius deſcenſus rōne intenſionis leuitatis. Conſequens impoſſibile vt apparet q2 ignis naturaliter appetit verſus ſurſum: non ergo iuuabit graue ad deſcenſum. Et ꝙ concluſio ſequatur arguitur ſic: detur mixtū cuius vna pars minor tamen ꝙ̃ medietas ſit vltra cētrū mūdi: in qua parte intendatur ignis: tunc ille ignis appetit moueri

contra concluſiones deductam.

vſus ſurſum: ſed illo igne aſcendēte totū nec iō deſcēdet. ğ
ille ignis iuuabit ad deſcēſuʒ illius mixti. Si ğ ſtaret gra
uitas rōne intēſionis illiꝰ ignis totū mixtū nec iō deſcede
ret. ❡ Itē ſequit̄ ꝙ dato mixto vniformi in vacuo qḋ eēt
graue illud ſi nature ꝓpe relinquerent in eternū moueret:
cuius.ſ. vna pars minor ꝙ̄ medietas eēt vltra cētrū: quia
nunꝙ̄ deueniret ad centrū ꝛ ꝯtinue moueret ꝙ̄diu diſta
ret a cētro: hoc ſic pʒ grauitas citra cētrū cū leuitate vltra
ꝯtinue appetet ad totiꝰ deſcēſum ꝛ ſolū grauitas vltra cē
trū cum leuitate citra appetet ne totū deſcēdat. Sed gra
uitas citra cētrū: ꝛ leuitas vltra ꝯtiᵉ maioris potētie erunt
ꝙ̄ grauitas vltra cētrū ꝛ leuitas citra: ğ totū ꝯtinue deſcē
det. Maior ſic arguit̄: grauitas citra cētruʒ ꝯtinue nititur
vſus deorſum: ꝛ leuitas vltra cētrū ꝯtinue nitit̄ vſus ſur
ſum. Sed ſi pars citra cētrū moueret̄ vſus deorſum totū
deſcēderet: ꝛ etiā ſi pars vltra cētrū aſcēderet totū deſcē
deret: ğ illa leuitas iuuabit ad deſcēſuʒ cū grauitate citra.
Cōſil'r arguit̄ ꝙ grauitas vltra cētruʒ reſiſtit ꝛ leuitas ci
tra cētruʒ ſil'r. pʒ ğ maior. Minor etiā arguit̄ ſic: qr̄ totū
mixtū eſt vniforme tāta ꝯtiᵉ erit ꝓportio grauitatis citra
cētrū ad ſuā leuitatē ſicut grauitatis vltra cētrū ad graui
tatē ſecū extēſam: quaꝝ grauitatū ꝛ leuitatuʒ grauitas ci
tra cētrū eſt maxima: ꝛ leuitas vltra cētrū minima: ğ ꝯtiᵉ
erit ꝓportio maioris inequalitatis iter grauitatē citra cētrū
cuʒ leuitate vltra ad grauitatē vltra cū leuitate citra. ꝯña
Regula ꝓportionū. tenet per h̄ ſi ſint 4ᵒʳ termini ꝓporᵗᵉˢ eadē ꝓporᵗᵉ geome
trica: quoꝝ ꝑmus ſit maximus ꝛ vltimus minimus. ꝑmus
ꝛ vltimus ſimpl'r aggregati plus alijs duobꝰ ꝯſtituēt. Se
quit̄ ğ ꝙ idē mixtū ꝯtinue deſcēdet ꝛ nunꝙ̄ deueniat ad
cētrū: qa tūc aliqñ diminueret̄ exceſſus poᵉ motiue ſupra
poᵗᵉᵐ reſiſtiuā ad nō gradū. Sed ꝯñs eſt falſum: qa tar
dius ꝛ tardius ꝓporᵗ ꝯtiᵉ diminuet̄ exceſſus ille: qa eque
lociter diminuet̄ iſta poᵃ motiua ſicut alia poᵃ maiorabit̄
ſ. reſiᵃ: qa equeueloᵗ diminuet̄ grauitas ex vna pte ſicut ex
alia maiorabit̄: ꝛ etiā equeueloᵗ minorabit̄ leuitas ex vna
pte ſicut ex alia maiorabit̄. ğ per vltimā regulā velocius
ꝓporᵗ minorabit̄ motꝰ ꝙ̄ exceſſus: ꝛ finita erit ꝓporᵒ mo
tus ad minoratiōeʒ exceſſus: ğ nunꝙ̄ deueniet exceſſus il
le ad nō gradū. ꝯña pʒ per arᵐ ꝑus factū. ❡ Itē ex pōne
4 ſeq̄t̄ ꝙ graue nāliter mouēs ad cētrū, ab eodē cētro nāli
ter recedet. Sit eiʒ. a. graue: cuiꝰ vna pars ſit. d. ſ. tota vltra
cētrū que ſit ꝯtiᵉ mixta ꝛ reſidua pars pura ꝛ ſit grauitas
vniꝰ mediᵗᵗᵉ eq̄lis grauitati alteriꝰ medietatis: tūc h̄ mix
tuʒ mouebit̄ ad cētruʒ: qa tota grauitas citra cētrū erit cō
tinue maior tota grauitate vltra: ꝛ ꝑter h̄ leuitas vltra cē
truʒ ꝯtinue iuuabit ad eiꝰ deſcēſum: ğ iter totā poᵗᵉᵐ moti
uā ꝛ poᵗᵉᵐ reſiſtiuā erit ꝯtiᵉ maior ꝓportio ꝙ̄ ſit ꝓportio
poᵉ aggregate ex meᵗᵉ iſtius grauitatis ꝛ tota iſta leuitate:
ꝛ per ꝯñs per motū eiꝰ poterit in certo tpe deuenire ad cē
trum. Et ꝙ nāliter recedet ab illo cētro ꝓbat̄. ſit inſtās in
quo erit ad cētrū: tūc in illo iſtāti erit grauitas vnius me
dietatis eq̄lis grauitati alteriꝰ mediᵗᵗᵉ: ꝛ tota leuitas incli
nabit vſus ſurſum: ğ totꝰ nixus ad deſcēſum terre vltra cē
truʒ erit maior ꝙ̄ reſiᵃ terre vltra cētrū. pars. n. citra cen
trū appetet deſcēdere: ex cuiꝰ deſcēſu ſeᵗ aſcēſus totiꝰ ter
re: ꝛ per ꝯñs tūc totuʒ incipiet moueri ꝛ recedē a cētro: ex
quo ſeq̄t̄ ꝙ graue nāliter aſcēdet ꝛ nāliter quieſcet extra
meᵐ mūdi: qa ſignet̄ in caſu ꝑmo vna pars iſtiꝰ grauis
que ſi eēt vltra cētrū eēt tāte poᵉ ſicē eſt terra citra id cen
trū cuʒ leuitate vltra: ꝛ ſeq̄t̄ ꝙ tūc erit ꝓporᵒ eq̄litatis iter
mouēs ꝛ motū: ꝛ per ꝯñs tūc nō erit motꝰ eius. Ex his ğ ꝛ
maxime ex ꝯne pᵃ deducit̄ illaʒ pōnem fore falſam.

Alia pō Ideo forte ponit̄ alia poſitio. vʒ. ꝙ pars ex vna
pte cētri nō appetit reſiſtere: nec reſi
ſtit pti ex alia pte cētri neq; toti ne ipm deſcēdat: ſʒ qa eſt
pars totiꝰ: ideo appetit vt meᵐ totiꝰ ſit mediū mūdi. ❡ Cō 3 pōnem.
tra iſtā pōneʒ ſic arᵗ. Idē eſt locus nālis cuiuſlibet partis
elīti ꝛ totiꝰ: quē locū oēs ptes appeterēt ſi eēnt ſepate a to
to: nō. n. eſt maior ratio ꝙ̄re vna pars ſepata appeteret il
lū locū nālē ꝙ̄ alia. Ex quo ſic arᵗ. Iſta pars que ē ex alia
pte cētri ſi per ſe eēt nō ꝯiūcta pti reſidue nāliter inclina
ret̄ ad cētrū: vt. ſ. cētrū eiꝰ eēt cētruʒ mūdi. Sʒ illud qḋ eſt
alicui nāle nō aufert̄ ꝑꝑ eiꝰ ꝯiūctionē cuʒ alio eiuſdē ſpēi
cuʒ illo: qa ꝑꝑ h̄ in eius nā nulla ſit mutatio: ğ adhuc illa
pars ꝯiūcta toti qñ eſt pars totiꝰ nitit̄ mouere vt eius meᵐ
fiat mediū mundi. ꝛ ſi ſic ſi ab iſto appetitu fruſtret̄ ne fi
nē ſuū nāliter habeat ipm nāliter ſuo impediēti reſiſtet. ꝛ
illud eſt pars citra cētrū: ğ pars vltra cētrū pti citra reſi
ſtet. ❡ Itē ſi totū moueret̄ h̄is ptē ex alia pte centri: que 2
pars recedit a cētro: vel illa pars nāliter recedit: vel violē
ter. ſi nāliter: tūc nāliter recederet a loco ad quem nāliter
tanꝙ̄ ad ſuū terminū vltiatū moueret̄. ꝯñs falſuʒ: qa mo
ueret̄ ad locū talē tanꝙ̄ ad finē eiꝰ. ſ. vbi getē ſuā habeat
nālē: ğ nō recedet nāliter. Si ğ violēter moueret̄: ꝛ omne
violētatū ſuo violētāti reſiſtit: ğ illa pars reſiſtit pti moue
ti vſus deorſuʒ. ğ iſta poſitio falſa. ❡ Itē ſeq̄t̄ ꝙ eſt mix 3
tū graue cōpoᵐ ex graui ꝛ leui diſtans a loco ſuo nāli: ꝛ tñ
idē nō moueret̄ vſus locū ſuū ſic dato mixto tali: cuiꝰ pars
vltra cētrū minor ꝙ̄ medietas ſit vltra cētrū: que ſit mix
ta: ꝛ ſit pars reſidua pura: tūc h̄ diſtat a cētro: qa cētrū eiꝰ
nō eſt cētrū mūdi: ꝛ tñ nō mouebit̄. Si vndiq; circa cētrū
mūdi eēt vacuum, nullā. n. tūc hr̄et reſiᵃᵐ: qa elītū leue in
iſto mixto appetit ꝯtiᵉ recedere a cētro: ꝛ ſi recederet totū
deſcēderet: vt notū eſt. ğ iuuat totū ad deſcēſuʒ: ꝛ per ꝯñs
nō ſibi reſiſtit. ❡ Ex h̄ deducit̄ ꝙ graue ꝑ iteñˢᵉʒ leuitatis Cōſirᵒ
in eo ſi ſtaret grauitas motū eiꝰ itēderet vſus deorſum: qa
caſu poſito: ſi totū poneret̄ in medio: ita ꝙ pars mixta eēt
ex alia pte cētri: ſi leuitas in iſta pte itēderet̄: ſtāte graui
tate totuʒ velociꝰ moueret̄: qa leuitas illa totū iuuaret ad
deſcēſuʒ. ❡ Ideo lʒ h̄ forte ſit ipoſe ꝙ grauitas ſtaret itē
ſa leuitate: h̄ tñ dʒ ſeq̄ ꝙ ꝑꝑ itēſionē leuitatis nō remitte
ret̄ motꝰ grauis vſus deorſuʒ. Iſta. n. leuitas ſemꝑ erit iuua
mētū in totiꝰ deſcēſuʒ: ideo iſta leuitas: lʒ equeloᵗ itēdat̄
ſicut grauitas minorat̄ totū nō remittet motū ſuū. ❡ Itē 4
ſeq̄t̄ ꝙ aliqḋ eſt mixtū qḋ ad cētrū moueret̄ ab iſto loco
in quo nūc ponit̄: cuius eſt certa pars leuitatis: que ſi eſſet
ablata nō moueret̄ totū vſus deorſuʒ. Signet̄. n. mixtū ꝑ
totū: cuiꝰ vna 4ᵃ ſit vltra cētrū: ꝛ ſit graue. Sit etiā vacuū
vndiq; circa cētrum: ꝛ ſequit̄ ꝙ ex quo grauitas ſupra le
uitatem dn̄atur ꝙ totuʒ deſcēderet: ꝛ tamē ſi tota leuitas
citra cētrum eſſet ablata totum nō moueret̄. nullaʒ enim
tūc haberet reſiſtētiam. ſequit̄ ergo ꝯcluſio.

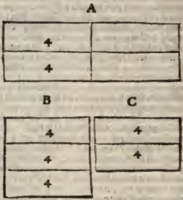
Pro iſto dici pōt ꝙ nulla pars reſiſtit alteri in de 4ᵃ opinio.
ſcēſu: ꝛ dē ꝯceᵈⁱ ꝙ idē eſt appetitꝰ ptis cuʒ
alteri pti ꝯiūgit̄ ſic ſi a toto ſeparet̄: diuerſimode tñ ſe hʒ
in effectu: ꝛ ꝯcedit̄ ꝙ ꝑ eūdē appetitū moueret̄ ad cētruʒ
ipa ſeparata a toto per quē qñ eſt pars totiꝰ recedet a cen
tro: vt appet. Uñ hʒ corpa nō hñt aliquē cōplexū appeti
tuʒ: ideo dicet̄ ꝙ nō appetūt mouere nec appetūt quieſcē
nec appetūt eē in cētro: imo appetūt locū īfimū in cōpara
tione ad totū vniuerſuʒ: qḋ ipm maxime hʒ qñ meᵐ eiꝰ eſt
mediū mūdi: ſicut dicimus ꝙ aliqḋ eſt ꝓpinquius alteri qñ
ſm ſe totū tāgit illud ꝙ̄ ſi ſolū ſm pūctū ipm tāgeret: ꝛ ꝙ̄
qñ tāgit cū pūcto medio dicimus idē eē ꝓpinquius ꝙ̄ qñ ſo
lū tāgit ſm extreᵐ: ideo mediū eiꝰ eē mediū mūdi: ꝛ ipm
eſſe in loco ꝛ quieſcere in loco ꝛ moueri ad locū: ſunt talia
que effectiue ꝯſequunt̄ eiꝰ appetitū in cōplexū qui eſt ad
cētrū. Uñ ſicut q̄libet pars ptis eſt pars totiꝰ: ita appetitꝰ
cuiuſlibet ptis erit pars totiꝰ appetitꝰ: ideo iuuat. ꝛ qa eſt
pars totius appetitꝰ: ideo iuuat totū vt totū ſituet̄ in loco
ſuo nāli:

ſuo nãli: ⁊ nõ ſibi reſiſtit. nulla. n. pars totiꝰ moueret: ⁊ cẽ
truʒ eiꝰ ſit cẽtrũ mũdi: ergo eſt pars appetitꝰ totiꝰ: ſʒ toto mo
uẽte ad cẽtrũ pars iſta que eſt vltra cẽtrũ recedit a cẽtro:
ideo vt eſt pars totiꝰ nãliter a cẽtro recedit. nõ eſt. n. rõna
bile ꝙ toti cõpetat vnus appetitus ⁊ ptes nõ hñt: ⁊ ſi aliq̃
ptes habeãt iſte erũt appetitꝰ ꝓprii totiꝰ: ⁊ qz ſunt ptes eiꝰ
appetitꝰ totiꝰ nulla pars toti iuuãt reſiſtẽ: nec vna pars alte
ri: nec ẽt eſt rõnale ꝙ totũ quieſcat nãliter: ⁊ q̃libet eiꝰ me
dietas violẽter quieſcat: cũ totũ ex illis medietatibꝰ cõponat.
Seq̃t ergo ꝙ ſic in actione nãli inter elĩta q̃libet pars iuuat
aliã ad agẽdũ: ⁊ in id agit q̃libet pars in qd totum agit: ita
in motu terre ad cẽtrũ q̃libet pars totã terrã iuuat ad de
ſcẽſuʒ: ⁊ nulla pars ipſi toti reſiſtit. Cauſa ratio eſt: qz appe
titꝰ cuiuſlibet ptis eſt pars totiꝰ appetitꝰ: ⁊ vbi totũ eſt ho
mogeneũ: vna pars toti nõ opponit: ideo nulla pars toti
reſiſtit in deſcẽſu: ſʒ ipm iuuat. Si tñ iſta pars eẽt ſepata
a toto: appetitꝰ illiꝰ partis fieret vnus iteger appetitꝰ ⁊ nõ
pars alteriꝰ. Ideo ille effectꝰ qui eſt motꝰ illiꝰ ptis vſus cẽ
trũ: illũ appetitũ tũc ꝯſeq̃ret: ſicut eſt in multis caſibꝰ. vʒ.
in gñõne aliq̃: qñ duo ꝓducũt aliqd: quoꝝ vtrũqʒ iuuat re
liquũ ad agẽdũ: ⁊ tñ vnũ per ſe illud idẽ nõ ꝓduceret: ſed
in caſu ꝯtrũ illiꝰ ſic modicus ignis per ſe in ſubito aliq̃ ꝯſer
uaret ſanitatẽ: ⁊ tñ duplus ignis cuiꝰ ille ignis eſſet medie
tas: ꝓduceret in totũ ĩfirmitatẽ. Aliud exm põt eẽ de gñã
tione coloꝝ: qz vna pars agẽtis: ſi per ſe eẽt aliquẽ colorẽ
ꝓduceret: vbi tñ eſſet pars alterius ꝓduceret colorẽ oino
ꝯtrũ: eidẽ tñ appetitũ pm ſp hñt: ita ꝙ ꝯclo nõ eſt incõue
niẽs. ſ. ꝙ qñ pars eſt ꝑ ſe hʒ appetitũ nãlẽ eũdẽ quẽ hʒ qñ
alteri ꝯiũgit: ⁊ eiꝰ appetitꝰ eſt pars alteriꝰ appetitꝰ qñ ꝯiũ
git: ita ꝙ ille appetitꝰ ptis eſt diuerſus in effectu qñ eſt ps
alteriꝰ: ⁊ qñ eſt per ſe. ¶ Per hoc põt rñderi ad argm ꝯtra Ad arm
põnẽ qñ arr ſic: idẽ eſt locus totiꝰ ⁊ ptis: ⁊ eũdẽ locũ appe
tit: qd eſt ꝯcedẽdũ. Silr eũdẽ locũ appetit qñ eſt pars al
teriꝰ ⁊ qñ eſt ꝑ ſe: ſʒ nõ ſeq̃t vltra: ergo inclinat vt cẽtrũ eius
ſit cẽtrũ mũdi: qz cẽtrũ eiꝰ eẽ cẽtrũ mũdi nõ cadit ꝑ in eiꝰ
appetitu: ſʒ locus ſic diſtãs in vniuerſo eſt ꝑ cadẽs in eius
appetitu: qz dĩ qñ ꝯiũgit alteri ita ꝙ eſt pars totiꝰ: eiꝰ ap
petitꝰ erit pars totiꝰ appetitꝰ: ⁊ ſic erit iuuãm ⁊ nõ ĩpedim in
totiꝰ motu. ¶ Et ad 2m arm ꝯcedit ꝙ nãliter recedit: qz eſt
pars totiꝰ: ⁊ eiꝰ appetitꝰ eſt pars totiꝰ appetitꝰ: ideo per eiꝰ
appetitũ ꝓpriũ vt eſt pars alteriꝰ appetitꝰ. ſ. totiꝰ recedit a
cẽtro: qz iuuat totũ ad deſcẽſuʒ. Et qñ ꝯcludit ꝙ graue nã
liter aſcẽdit: idẽ ꝯcedit: vbi. ſ. idẽ graue eſt pars alteriꝰ: et
ſilr aliqñ aſcẽdet nãlr in ſecũdo aliud corpus ſic ſubtracta
terra a qua deſcẽderet. Et ex appetitu ẽt iſtiꝰ ptis vltra cẽ
trũ vt eſt pars totiꝰ appetitꝰ iuuat totũ ad deſcẽſuʒ: ex cuiꝰ
deſcẽſu ſeq̃t aſcẽſus illiꝰ ptis: ſʒ nunq̃ aſcẽdit graue tanq̃
ad terminũ vltm ſibi acq̃rẽdũ. ſemꝑ. n. appetit locũ ĩfimuʒ
vt eſt in tali ſpecie. ¶ Ad 3m arm ꝯtra põnẽ ꝯcedit ꝯclo ꝙ
nullã hñet reſiſtẽtiã: ⁊ ẽt ꝯcedendũ eſt ꝯclo ad quã deducit: qz in ca
ſu ex aſcẽſu elẽti leuis in illo mixto ſeq̃t totiꝰ deſcẽſus: ſic
pʒ in caſu ibi poſito. Et ideo tũc ex lẽtõe illiꝰ leuitatis acq̃
ret iuuãm toti quo ad eiꝰ deſcẽſuʒ. ¶ Ad 4m ẽt arm ꝯcedit
ꝯclo ad quã deducit: qz a remiſſa leuitate totuʒ nullã hñet
reſiſtẽtiã: ideo ibi nõ hñet motũ: ideo illa arta nõ vadũt cõtra
põnem. ¶ Cõtra poſitionẽ ꝓprimã eſt pm argm in eius op
poſituʒ factũ fortiſſimũ: qz eſt impoſſibile ꝙ aliqd appe
teret aliqd nãliter qd attingere non poſſet ⁊c.

¶ Tractatus 12ꝰ De luminoſis.

De luminoſis ſeq̃t ꝑtractare. Et ꝑ pe
nes qd attendit poa lu
minoſi. 2o de eiꝰ actiõe in mem. ¶ Pro pa pte
dictuʒ eſt: vbi tãgit penes qd attẽdit poa rei
q̃lificate: qz penes multitudinẽ forme: ibiqʒ dcñ eſt
ꝙ q̃ntitas ad potentiã nihil facit: ⁊ ideo ꝯdẽſatio nõ facit totũ
eẽ maioris pote vel minoris nec deꝑditio q̃ntitatis niſi fuerit ꝑ
accñs: vt dato vno calido vl luminoſo ꝑ totũ: cuiꝰ vna cer
ta pars auferat manẽte pte reſidua ſic eſt in pri: ⁊ ſeq̃t ꝙ
totũ diminuet in pote: qz minꝰ tũc hẽbit de forme quã nũc hʒ:
hoc tñ nõ erit rõne deꝑditionis mãei ſeu q̃ntitatis: ſʒ rõne forme
extenſe in illa mã: que ſimul auferet cũ illa mã. ⁊ ideo ſtarẽt
duo eẽ eq̃lia q̃ntitate ⁊ eque itẽſa: dum tñ vnũ foret maioris
pote q̃ reliquũ: vt ſatis eſt ꝑ argumẽtũ. Si tñ ſint oĩa ſilia: ita
ſ. ꝙ ſint eque itenſa ⁊ vnũ tãtũ ꝯtineat de forme ſicut reliquũ
vt eſt qñ equalr ꝯtinet de mã ſic ꝑdictũ eſt: tũc neutrũ eſt
maioris pote q̃ reliquũ. Fiat ergo hic locutio ſp de eq̃libus ⁊
eque itẽſis iuxta vltm modũ. ſ. ꝙ ſint ſilia oĩ mõ. ſ. ꝙ in oĩ
pte vniꝰ ſit ita de multitudine forme ſic in pte eq̃li alteriꝰ. Uocet
igit equalr itẽdi in gradu vt qñ vnũ itẽdit ⁊ fiet itẽſiꝰ: ⁊ reli
quũ ſit itẽſiꝰ ꝑ latitudinẽ eq̃lẽ: ⁊ ſi ſint eq̃lia ꝙ vnũ ita mul
tũ acq̃rat de forme ſicut reliquũ: ⁊ ſi ſint ineq̃lia ꝙ vnũ plus
acq̃rat de forme q̃ reliquũ: ſic dato vno vniformi per totũ qd
itẽdat manẽs ꝯtĩ vniforme: ⁊ ſeq̃t ꝙ per eq̃lẽ latitudinẽ fiet totũ
eque itenſum ſic medietas: ⁊ tñ in duplo plus de forme acq̃ret totũ
q̃ medietas. Fiat ſilr hic locutio de ꝑditiõe mãe qñ pars
mãe auferet cũ pte forme: qz aliter nõ deꝑderet pote. ¶ His p̃a regula
ꝑſuppoſitis hic intellectꝰ eliciunt regule vel ꝯclõnes: quarũ pa eſt
hec. Si ſint duo luminoſa eq̃lia in q̃ntitate: quorũ vnuʒ ſit
alio itẽſiꝰ: ita ꝙ pluſ ꝯtineat de forme que eq̃uelociter diminuũ
tur in q̃ntitate ꝓportionaliter ſic vnũ eſt alio itẽſiꝰ: ita velociꝰ dimi
nuet in pote: qz ꝓportionaliter ſic vnũ eſt alio itẽſiꝰ: ita plus ꝯtinet
de forme: ⁊ ita eſt maioris pote: ⁊ ſic eſt pars q̃libet vniꝰ maio
ris pote q̃ ps ſibi eq̃lis correſpõdẽs alteriꝰ: ergo ſi eq̃uelociter deꝑde
ret de ptibꝰ coꝝ ſic vnũ eſt alio itẽſiꝰ: ita plus deꝑdit de
pote: vt ſi vnũ eẽt ꝑ totũ vt 4or ⁊ reliquũ vt duo ⁊ vtriuſqʒ
deꝑderet medietas vtriuſqʒ fieret in duplo minoris pote q̃ eſt
in pri: ⁊ vnũ eſt alio in duplo maioris pote ⁊ ſp erit: ⁊ per ꝯñs
in duplo velociꝰ diminuet idẽ in pote. ¶ 2a eſt hec: ſi ſint duo 2a
luminoſa ineq̃lis q̃ntitatis ⁊ eque itenſa que eq̃uelociter ꝑ totũ re
mittant ſicut vnũ eſt alio maioris q̃ntitatis: ita velociꝰ remit
tet in pote. ſic. n. vnũ eſt alio maioris q̃ntitatis: ita eſt maio
ris pote: ⁊ ꝯtĩ erit. ¶ 3a ſi ſint duo luminoſa eq̃lia in q̃ntita 3a
te: ⁊ ineque itenſa: que eq̃uelociter ꝑ totũ remittant in gradu ſtante
q̃ntitate illa eq̃uelociter remittent in pote: qz ibi erit eq̃lis deꝑdi
tio forme: vt ſi. a. ſit in duplo itẽſiꝰ. b. ⁊ eq̃le ſilr loquẽdo vt
ꝑuſ: ita ꝙ. a. in duplo ſit itẽſius ⁊ in duplo plus ꝯtinẽs de forme:
tũc ſi. b. remittet ad nõ gradum. a. remittet ad ſubduplum: vt ꝯſtat.
Cum ergo iter potentiã. a. ⁊ gradum ſubduplũ ſit tãta latitudo ſicut iter
potentiã. b. ⁊ nõ gradum: ſeq̃t ꝙ tãtã potentiã deꝑdet. a. ſicut. b. ¶ Silr 4a
ſi ſint duo luminoſa ineq̃lia ⁊ eque itẽſa in gradu que eque
velociter diminuent in q̃ntitate ſtãtibꝰ itenſionibꝰ eq̃uelo
citer diminuent in pote: qz ex quo ſunt eque itenſa loq̃ndo
vt ꝑuſ ſicut vnũ eſt alio maiꝰ: ita plus ꝯtinet de forma: ⁊
oĩs pars vniꝰ tñ ſicut pars eq̃lis alterius: ergo in deꝑditione
partiũ eq̃liũ q̃ntitatis equalr deꝑdet de forma: ⁊ per ꝯñs
equalr de pote. Exẽpla facilr patent. ¶ Ex his deducit ꝙ 5a
eq̃lis remiſſio per totũ in gradu rei eq̃lis q̃ntitatis equalr
facit: ſiue ſint eque itenſa ſiue nõ. ¶ Silr eq̃lis deꝑditio 6a
q̃ntitatis rei eque itenſe ſoꝝ ſiue ſint eq̃lia ſiue ineq̃lia equa
liter faciet ad deꝑditiõeʒ pote vniꝰ ſicut pote alteriꝰ. ¶ Ex Corm pm
ꝑdictis iferẽ ꝙ ſi ſint duo luminoſa ineque itenſa ſiue eq̃
lia ſiue ineq̃lia que eq̃uelociter diminuant in q̃ntitate ſtãte
gradu: ꝓportionaliter ſic vnuʒ eſt alio itẽſiꝰ: ita velociꝰ diminuet
in pote. Hoc ſic pʒ: ſit. a. itenſius. b. ſiue eq̃le ſibi ſiue inequale:
⁊ ſit. c. eque itenſum cũ. a. ⁊ eq̃le ipſi. b. ⁊ diminuant oĩa eq̃
uelociter in q̃ntitate: ⁊ ſit. f. ꝓportio in qua. a. ⁊. c. ſunt itẽ
ſiora. b. tũc per pam ꝯclõneʒ in. f. ꝓportionẽ velocius diminuet. c.
in pote q̃. b. ⁊ per 4am ⁊ per 6am. c. eq̃uelociter diminuet in pote.
ſicut. a. qz illa erũt eque itenſa: ⁊ eq̃uelociter diminuent in
q̃ntitate. ergo in. f. ꝓportionẽ velocius diminuet. a. in pote q̃. b. qd

2m fuit pbādus. ¶ Similr ſequit̃ q ſi ſint duo inequalia in quā-
titate ſiue eque itenſa ſiue inequie itenſa: que equeuelo' cō
tinue remittant̃ per totū in gradu ſtāte q̄titate ꝓpor' ſic̃
vnū eſt alio maius: ita velocius remittet̃ in po^a. Sit eniʒ
a.in.f. ꝓpor' maius.b.ſiue eque iten^m cū.b.ſiue ineque in-
tēſuʒ: ꝛ ſit.c.eq̄le.a.ꝛ eque iten^m cū.b.ꝛ remittant̃ oia eq̄ue
lociter ſtātib' coꝝ q̄titatib': tūc per 2as ꝯnē in.f.ꝓpor' ve-
locius remittet̃.c.in po^a q̄ȝ.b.ꝛ per 5as ſeu 3as equalr remit
tent̃.a.in po^a: g̃ in.f.ꝓpor' veloci' remittet̃ in po^a.a.q̄ȝ.b.
qd̄ fuit pban^m. ¶ Oēs iſte ꝯnes prīt etiā pbari multo me-
lius iuxta illos qui ponūt q deꝑditio q̄titatis ſine deꝑdi-
tione for' facit ad deꝑditioneʒ po' ꝛ fierēt tūc ꝯſiles ꝓba-
tiones ſicut nūc. Itē tot ꝯnes ſequunt̃ in via maioratiōis
q̄titatis ꝛ itēſionis in gradu quo ad maioratiōeʒ po' ſicut
nūc ſequunt̃ in deꝑditione vtriuſq3: vt notum eſt. ¶ Per
has ꝯnes facilr ſoluunt̃ arg^ta cōia falſuʒ ꝯcludētia. Quoꝝ
p^m eſt.vʒ.q aliq̄ ſunt ineq̄lis po' ꝛ ſine deꝑditione po' ſu-
bita equecito deuenient̃ coꝝ po' ad nō g^m: ꝛ tn̄ illa eq̄uelo-
citer ꝯtinue remittent̃ in po^a. ¶ Et 2^m q.a.ꝛ.b.ſunt eq̄lis
po' ꝛ velocius ꝯtinue diminueret̃ in po^a.a.q̄ȝ.b.ꝛ tn̄ eque-
cito deuenient̃ ad nō g^m po'. ¶ 3^m eſt q.a.ꝛ.b.ſunt equalis
po' que equeuelo' ꝯtinue augmētabunt̃ in po^a: q̄ruʒ vnū
in fine erit alio maioris potētie. ¶ 4^m eſt aliqd diminuet̃
ad nō gradū po': qd̄ ſolū remittet ad gradū finite potētie.
p^m arg^m ¶ Primū ſic ar'. Sint.a.b.eque itēſa: ꝛ ſit.a.maioris quā-
titatis q̄ȝ.b.ꝛ remittātur ad nō gradū in forma ſtāte vtri-
uſq3 q̄titate: ꝛ ſeq̄t̃ q.a.eſt maioris po' q̄ȝ.b.ꝛ q eq̄ueloci-
ter diminuet̃ in po^a cuʒ.b.arguit̃ ſic. Neutrū diminuet̃ in
po^a niſi rōne remiſſionis for' et eq̄uelociter remittet̃ for^a
vni' ſicut for^a alteri': g̃ eq̄uelociter remittent̃ in potētia ꝛ
equecito remittent̃ ad nō gradus po': q2 remiſſis formis
ad nō gradū remittent̃ potētie ad nō gradū: ꝛ nō erit ſu-
bita deperditio potētie: qa īfinite modice po' erit vtriuſq3
2m ante finē. ¶ Scdm ꝯſilr arguit̃. ſint eniʒ.a.b.eq̄lia intēſi-
ue ꝛ extēſiue: ꝛ diminuant̃ ad nō quātū eq̄uelociter ꝛ intē-
dat̃.b.in gradu: ita tn̄ q ſua po^a remittat̃ ꝛ ſtet.a.in gra-
du tūc. q.a.ꝯtinue diminuet̃ in po^a velocius q̄ȝ.b.arguit̃:
qa ſi.a.itenderet̃ in gradu ſicut.b.eq̄uelociter remitteret̃
in po^a ſicut.b.ſʒ itenſio gradus in.b.īpedit remiſſionē po-
tētie: qa facit ad eius itēſioneʒ: g̃ nūc velocius remittet.a.
3m in po^a q̄ȝ.b.ſequit̃ g̃ ꝯclo. ¶ Tertiū ſic arguit̃. Sint.a.b.
duo eque itēſa ꝛ ſub eodē gradu quātitatis: ꝛ intēdat̃.a.in
gradu ad duplū: ꝛ maioret̃ etiā in q̄titate ad duplū: ꝛ itē-
dat̃.b.in gradu in duplo velocius q̄ȝ.a.tūc q.a.b.eq̄uelo-
citer itēdent̃ in po^a arguit̃ ſic. tātū faciet itenſio forme.a.
ad maioratione ſue potētie ſic̃ maioratio ſue q̄titatis: exq̄
eque ꝓpor' maiorabunt̃ q̄titas ꝛ gradus: ꝛ in duplo plus
faciet itenſio gradus in.b.q̄ȝ in.a.exq̄ in duplo veloci' in-
tēdet̃.b.q̄ȝ.a.g̃ tātū faciet iten^o in gradu in.b.ſicut itenſio
gradus in.a.ꝛ maioratio ſue q̄titatis. Uel ſic ſi ſtaret gra-
dus in.a.ꝛ q̄titas maioraret̃ ad duplū tātā po^em acqreret
a.ſicut ſi itēderet̃ in gradu ad duplū ꝛ ſtaret q̄titas: ꝛ etiā
in omni inſtāti eque ꝓportionabilr maioraret̃ po^a.a.ſicut
ſua q̄titas ſi ꝓtūc ſtaret in gradu: ꝛ etiā eque ꝓpor' maio
raret̃ in po^a ſicut in gradu ſi ſtaret q̄titas. Cū g̃ pro omni
inſtāti eque ꝓportionabilr maiorabit̃ gradus illi'.a.ſicut
q̄titas: ſeq̄t̃ q ꝯtinue tātū faciet itēſio in gradu ad itēſio-
neʒ potētie.a.ſic̃ maioratio ſue q̄titatis ꝛ ecōtra. Sʒ ſi nō
maioraret̃ in q̄titate in duplo tardius intēderet̃ po^a.a.q̄ȝ
po^a.b.g̃ nūc eq̄uelociter itēdet̃ po^a.a.ſicut po^a.b.ꝛ tn̄ in fi
ne erit.a.maioris po' q̄ȝ.b.qa.b.in fine erit ꝓciſe in triplo
maioris po' q̄ȝ nūc eſt: ꝛ.a.tūc erit in q̄druplo maioris po'
q̄ȝ nūc eſt. Maior ꝓʒ: q2.b.itēdet̃ ad triplū in gradu vt cō
ſtat. Et mino: ſic ar'. Sit.c.tāte q̄ti^tis ſic in pn^o eſt.a.ꝛ eque
iten^m ſic̃ eſt.a.in fine: ꝛ ſeq̄t̃ q.c.eſt in pn^o in duplo maioris
potētie q̄ȝ.a.q2 eſt eq̄lis q̄titatis cum.a.ꝛ in duplo itēſio-
ꝛ: ꝛ in fine erit.a.in duplo maioris po' q̄ȝ eſt.c.exquo tūc
erit eque intēſuʒ ſicut nūc eſt.c.ꝛ in duplo maioris q̄tita-
tis q̄ȝ eſt.c.g̃.a.in fine erit in q̄druplo maioris po' q̄ȝ nunc
eſt. ꝛ ſi ſic tūc erit.a.maioris po' q̄ȝ.b.qd̄ fuit arguēdū.



¶ Quartū ſic ar'. Sit.a.vnū luminoſuʒ vnifor': cui' q̄ti- 4m
tas minoret̃ vni' ad ſubdu^m ꝛ ēt lumē tūc ſi nō remitteret̃
in g^u minoraret̃ in po^a ad ſubduplū. Et tātū ꝯti' faciet re-
miſſio in g^u ad minoratōeʒ ſue po' ſic̃ diminutio q̄titatis:
exq̄ ꝯti^e eq̄propor' minorabunt̃ q̄titas ꝛ lumē. g̃ rōne di-
minutiōis in q̄ti^te ꝛ remiſſiōis in lumine minorabit̃ eius
po^a ad nō g^m: ꝛ tn̄ nō remittet̃ ad nō g^m po': q2 in fine erit
certe q̄titatis diſpoſitū certo g^u lumis. ¶ Itē arg' q aliq̄ 5m
ſunt 2^e lati^ue eq̄les que eq̄cito deꝑdent̃ ad nō g^m: q̄rū vna
alia ꝯtinue remittet̃ veloci'. Sint elʒ.a.b.2° luminoſa ol-
no ꝯſilia ꝛ remittat̃ lumē.a.vnifor' ad nō graduʒ in hora
ꝛ eq̄propor' maioret̃ q̄titas: ita q cōti' maneat eq̄lis po'
ſic̃ nūc eſt: ꝛ augmētet̃.b.ꝯſilr ſic.a.ſed remittat̃ ſic in gra
du q ſua po^a remittat̃ ꝯti' que remittat̃ ad nō g^m in eadē
hora: tūc.b.ꝯtinue veloci' remittet̃ in g^u q̄ȝ.a.q2 ſi eq̄uelo'
cum.a.vel tardi' tūc nō remitteret̃ ſic nec.a.qa.b.ꝯtinue
equeuelociter augmētabit̃ ſicut.a. Sʒ per caſuʒ.b.ꝯtinue
remittet̃ in potētia. ergo velocius cōtinue remittet̃ in lu-
mine q̄ȝ.a.ꝛ iam equalr diſtant.a.b.a nō gradu luminis ꝛ
eq̄cito remittent̃ ad nō g^m: q2 in illa hora. g̃ ſequit̃ ꝯcluſio.
¶ Pro oībus iſtis rn̄det̃ per regulas ꝓpoſitas: q2 in caſu Ad arg^a
poſito ad p^m ar^m: lʒ eq̄ueloꝝ erit remiſſio in g^u re^a.a.b.q2 tn̄
a.plus hʒ de for^a q̄ȝ.b.ideo plus deperdet.a.de po^a q̄ȝ.b.ꝛ
tūc nō ꝓcedit ar^m ſic̃ non ꝓcedit de toto ꝛ medietate eiuſ-
deʒ: vt dato luminoſo vniformi totū eſt in duplo maioris
po' q̄ȝ medietas: ꝛ eq̄uelo' remittet̃ in caſu ſic̃ medietas:
ꝛ ſemꝑ erit maioris po' q̄ȝ medietas in eadem ꝓpor^e.ſ.in
duplo maioris po' q̄ȝ medietas: ꝛ ſic eſt de.a.ꝛ.b.ꝛ ſic non
valet ar^m. ꝛ ponit̃ cā: q2 eq̄lis deꝑditio in g^u plus re^a q̄tita-
tis maioris q̄ȝ minoris facit ad deꝑditioneʒ po'. ¶ Et ſic Ad 2^m
etiā ſoluit̃ 2^m ar^m: q2 admittat̃ caſus ꝛ ꝯcedit̃ q per aliqd̄
tēpus velocius remittet̃.a.in po^a q̄ȝ.b.ſʒ nō ꝯtinue. Et ra-
tio eſt: qa diminutio q̄titatis.b.cōtinue plus ꝛ plus faciet
ad minorationē potētie.b.q̄ȝ diminutio q̄titatis.a.ad mi-
norationē potētie.a.qa.b.equalr diminuet̃ cuʒ lumine in-
tēſiori ꝛ intēſiori. ꝛ ideo lʒ intēſio luminis.b.per aliqd̄ tp̄s
īpediet remiſſionē potētie.b.nō ꝯtinue ita faciet.i.nō ꝯti-
nue faciet vt totum.b.ꝯtinue tardius remittat̃ in po^a q̄ȝ ſi
ab initio nō fuiſſet intēſio facta: ſʒ pro omni iſtāti īpediet
remiſſionē:

remiſſionē:ita ꝙ pro illo iſtāti tardius remittet in poª ꝙ̄
ſi nūc nō itēderet lumē:ſ3 nō faciet ꝙ totū tardius remit-
tet in poª in illo iſtāti ꝙ̄ ſi nō foret inteſio luminis ab ini-
tio.nec adhuc eſt neceſſe ꝙ.a.aliqñ tardius remittat in poª
ꝙ̄.b.ſ3 ſtat ipm.b.ſic velociter itēdi in gº ꝙ.a.ꝯtie velocius
remittet in poª ꝙ̄.b.ſtat eti3.b.ſic itēdi in gº ꝙ pro oi iſtāti
erit tāte poe ſicut nūc eſt vt ꝯſtat:vt poſito ꝙ eq ꝓpor-
tionabiliter maioret in gº ſic minorat in ꝗ̄titate:ꝛ tūc dicet
ꝙ ſubito deꝑdet magna latitudo potentie.b.ꝛ ſic nō ꝓce-
dit argm. ¶ Si tñ ponat ꝙ nulla latitudo ſubito deꝑdat
ſic eſt qñ intēdit ad gm ſolū finitū luminis:tūc dī ꝙ aliqñ
velocius remittet.b.in poª ꝙ̄.a.qḋ ſic declarat. Et ꝑ argr ꝙ
vbicūq3 eſt luminoſu3 aliqḋ:cuius ꝗ̄titas minorat ad nō
ꝗ̄tū ꝛ gradus intēdit ſolū ad gm finitū:ꝙ illud luminoſu3
remittet ad nō gm nullā latitudinē ſubito deꝑdēdo:q2 ſit.a.ta-
le:ꝛ ſit.b.eqlis ꝗ̄titatis cū.a.ꝛ minoret quātitas vtriuſq3
ſucceſſiue ad nō ꝗ̄tū:ꝛ ſit.b.in ꝑnº ſub eodē gº luminis ad
quē itēdet excluſiue lumē.a.quē.ſ.hēt.a.in fine ſi mane-
ret:ꝛ nō intēdet.b.in gradu nec remitteret:quo poſito.b.
ꝯtinue erit maioris poe ꝙ̄.a.q2 a.b.ꝯtinue erit itēſius ꝙ̄.a.ꝛ
eqlis ꝗ̄titatis cū.a.ꝛ.b.ſucceſſiue remittet ad nō gm nullā
latitudinē ſubito deꝑdēdo:g̊ a fortiori.a.nullā latitudinē ſubi-
to deꝑdet.ꝯña ꝛ maior patēt ꝛ minor argr.eqꝓpor. mi-
norabit poª.b.cū ſua ꝗ̄titate:ſ3 ꝗ̄titas ſucceſſiue minora-
bit ad nō ꝗ̄tū:g̊ ꝛ poª. Vel ſic.poª aliqñ erit in duº minor
ꝙ̄ nūc eſt:ꝛ aliqñ in ꝗ̄druplo minor:ꝛ ſic in ifim:q2 eqꝓpro-
portionabiliter minorabit cū ꝗ̄titate:g̊.b.nullā latitudine3
poe ſubito deꝑdet.ſeqt g̊ ꝯclo. ¶ Ex h igit deducit ꝙ ſi
luminoſu3 aliqñ diminuat ad nō ꝗ̄tū ꝛ itēdat in lumine
ad gm ſolū finitū ꝙ aliqñ velocius remittet in poª ꝙ̄ ſi ab
initio nō foret in eo inteſio luminis. Sit eni3.b.tale:cuius
ꝗ̄titas minoret ad nō ꝗ̄tu3 ꝛ lumē ad gm ſolū finitū intē-
dat:ꝛ ſit.a.oino ſile.b.cuº ꝗ̄titas minoret ad nō ꝗ̄tu3 ſi-
ne acquiſitione luminis ſic eſt in caſu poſito ad ꝓbōnē iſtiº
ſcdi falſi. Et arguit ꝙ.b.aliqñ velocius remittet in poª ꝙ̄.a.
q2 a eq quātitas minorabit ad nō quātū:ifinitū modicu3
aliqñ faciet itēſio luminis ad itēſionē ſue potētie:ꝛ mino-
ratio ꝗ̄titatis cū illa itēſione in gradu ꝯtinue plus ꝛ plus
faciet ad remiſſione3 potētie.g̊ aliqñ maior erit exceſſus
remiſſionis potētie corrñdētis minorationi ſue ꝗ̄titatis ad
itēſionē potētie corrñdētis itēſioni in lumine ꝙ̄ erit latitu-
do iter gm quo ꝯtinue diminuet.a.ꝛ nō gm:q2 a.a.ꝯtie vnifor-
miter minorabit ad nō gm potētie:ſicut p3 per ꝯnē 6am:et
exceſſu iter illā minoratione3 potētie corrñdētē minora-
tioni ꝗ̄titatis ꝛ maioratiōe3 potētie corrñdētē maioratio-
ni luminis corrñdebit remiſſio ſue poe in.b.vt p3.g̊ aliqñ
velocius minorabit.b.in poª ꝙ̄.a. Exm ad h eſt tale.pona-
tur ꝙ minoratio potētie.a.per minoratiōe3 ꝗ̄titatis ſit vt
4or ꝯtinue.ꝛ ponat ꝙ lumē.b.intēdat vniformiter ad du-
plū ꝛ dcē inſtās mediū totiº tꝑis:tūc erit ꝗ̄titas.b.in dupº
minor ꝙ̄ nūc eſt:ꝛ lumē tūc eqvelor intēdet ſicut nūc.g̊ ꝑ
ꝯne3 8am in duplo minus faciet itenº luminis ad maiorationē
totiº potētie ꝙ̄ nūc incipit:ꝛ nūc incipit facere vt 4or:vel in
nulla ꝓpor minus:q2 in nulla ꝓpor incipit tardius ꝓpor
lumē itēdi ꝙ̄ quātitas minorari.g̊ iª itenº luminis tūc fa-
ciet ſolū vt 2º ad itēſionē potētie:ꝛ minoratio ꝗ̄titatis.b.
tūc faciet ſex ad minoratiōe3 potētie:q2 tūc eqvelor dimi-
nuet ſic nūc incipit ꝛ ipm:tūc erit in ſexqalterō itēſius ꝙ̄
nūc eſt:ꝛ nūc faciet vt 4or:g̊ tūc faciet vt ſex.ꝯña per ꝯnē
7am ſatis p3.g̊ tūc erit exceſſus remiſſionis ꝑ minoratiōe3
ꝗ̄titatis ſupra itēſionē potētie ꝑ itēſionē luminis vt 4or:ꝛ
tūc totū remittet in poª gº vt 4or.ꝯña p3:q2 ſi nō itēderet
in lumine remitteret tūc gº vt ſex:ꝛ itenº luminis tollet de iª
remiſſione ſolū vt duo:ꝛ ſic in iº iſtāti eqvelor remittet.b.
in poª ſic.a.ꝛ ꝯtie poſt velocius:ꝛ ſic ſeqt illa ꝯclo 10ª.ſol-
uit argm ad ꝓbōnē illiº 2i falſi. ¶ Ad 3m rñdet admittēdo Ad 3m
caſum:ꝛ dī ꝙ.a.ꝯtie velocius itēdet in poª ꝙ̄.b.ꝛ negat ꝙ in
duº plus faciet itēſio lumis in.b.ad itenē ſue poe ꝙ̄ itēſio
lumis in.a.ſ3 in duº velocius itēdat lumē in.b.ꝙ̄ in.a.q2 itē-
ſio lumis in.a.erit ꝯtie reª ꝗ̄titatis maioris ꝙ̄ in.b. Et iō itenº
lumis in.b.nō plus faciet ꝙ̄ itēſio lumis in.a.ꝛc.ſ3 intēſio
lumis in.a.tm̄ faciet ſic maioratio ꝗ̄titatis ad itēſione3 ſue
poe:ꝛ vtrūq3 ꝑ ſe deducta alia in duº minus faciet ꝙ̄ itēſio
lumis in.b.ideo nō ſeqt ꝙ illa duo nūc tm̄ faciēt ꝑciſe ſic
itenº lumis in.b.q2 itenº lumis in.a.plus faciet rōne maio-
rationis ſue ꝗ̄titatis ꝛ eē:ꝛ ſic nō ꝓcedit argm. ¶ Ad aliud g̊ dī Ad 4m
admittēdo caſu3 ꝛ negat ꝙ minorabit ad nō gm poe.ꝛ ne-
gat ꝯña illa ſi nō minoraret in ꝗ̄titate remitteret ad ſubdum
in poª:ſ3 nūc minoratio ꝗ̄titatis tm̄ ꝯtie faciet ad remiſſiōe3
poe ſic remiſſio lumis:g̊ rōne diminutiōis ꝗ̄titatis ꝛ remiſſiōis
lumis minorabit eiº poª ad nō gm:q2 minoratio in luie nūc
nō facit tm̄ ad minoratiōe3 ſue poe ſic faceret ſi nō mino-
raret in ꝗ̄titate nec eē. ¶ Per iſta ꝑſuppoſita rñdet ad 5m Ad 5m
negamº iº ꝛ admittenº caſu3:ꝛ negat ꝙ.b.ꝯtie velocius remit-
tet in gº ꝙ̄.a.ſ3.b.remitteret in poª ꝛ nō.a.q2 ꝗ̄cūq3 inſtāti
poſt h dato ſi.b.ꝓ tūc remitteret in lumie eodē gº quo.a.
tūc.b.remitteret in poª. Qḋ ſic arr:q2 tūc remiſſio.b.in gº
eqlr faceret ad remiſſionē ſue poe:ſic remiſſio lumis.a.fa-
ceret ad remiſſione3 ſue poe:ſic p3 ꝑ ꝯnē 5am:eq co ꝗ̄ti-
tates erūt tūc eqles.cū g̊.b.tūc erit remiſſiº ꝙ̄.a.q2 erit eq-
le.a.ꝛ minoris poe ꝙ̄.a.p3 ꝙ maioratio ꝗ̄titatis.b.tūc minº
faceret ad maioratiōe3 ſue poe ꝙ̄ maioratio quātitatis.a.ad
maioratiōe3 ſue poe. Sed in oi iſtāti tātu3 faciet maioratio
ꝗ̄titatis.a.ad maioratiōe3 ſue poe ſic remiſſio ſui luis faciet
ad remiſſionē ſue poe:eq nō itēdet in poª nec remittet.g̊
p3 ꝙ ſi pro aliq iſtāti eqvelor ꝑciſe remittet.b.in lumine
cū.a.ꝙ tūc plus faceret remiſſio ſui luis ad minoratione3
ſue poe ꝙ̄ maioratio ſue ꝗ̄titatis ad maioratiōe3 ſue poe:g̊ ſi
eqvelor pro aliq iſtāti remitteret.b.in gº cū.a.ſeqt ꝙ tunc
remitteret.b.in poª:g̊ non ſeqt.b.ꝯtinue erit tāte ꝗ̄titatis
cū.a.ꝛ eqvelociter maiorabit cum.a.ꝛc.ꝛ.a.nō remittet ꝛ
b.remittet:g̊.b.velocius diminuet in lumine ꝙ̄.a.

Cōtra ꝯnes ꝑdcās pōt argui deducēdo ꝙ ſi aliqḋ au- 3 ꝯnes
gmētet a nō ꝗ̄to ꝛ a nō gº luis ꝙ idē ifim tarde
incipit maiorari in poª:q2 eq ifita modica incipit eē ꝗ̄titas
illiº:ifinite modicū incipet itenº luis facē ad itēſionē poe:ꝛ
ēt infim modicū icipet maioratio ꝗ̄titatis facē ad itēſionē poe:
eq incipet eē reª ifim remiſſi gº:ꝛ ꝑ ꝯñs nō aliqlr velor in-
cipet totū itēdi in poª rōne maioratōis ꝗ̄titatis ꝛ ēt itenm luis.
g̊ ſeqt ꝯclo. ¶ In cuiº oppm ſic arr. Sit.a.luminoſu3 certe
ꝗ̄titatis:ꝛ diuidat hora in ꝑtes ꝓporles ꝓporne ꝗ̄drupla:ꝛ in
oi ꝑte ꝓporli diminuat ad ſubdum in ꝗ̄titate:ꝛ ēt remittat in
lumie ad ſubdum:quo poſito in oi ꝑte ꝓporli huiº hore ſic
diuiſe diminuet in poª.a.ad ſubꝗ̄drum:q2 in oi ꝑte ꝓporli
diminuet ad ſubdum in ꝗ̄titate:ꝛ ad ſubdum vnitº in gº.g̊ cum
2ª pars ꝓporlis iſtiº hore ſit ſubꝗ̄drupª ad pªm:ſeqt ꝙ in 2ª
ꝑte ꝓporli diminuet in poª eqvelor ſic in pª:q2 in ꝗ̄druº mi-
nore latitudinē poe deꝑdet in 2ª ꝑte ꝓporli ꝙ̄ in pª:eo ꝙ iter
oē3 gm ꝛ ſuū ſubꝗ̄drum eſt in ꝗ̄druº minor latitudo ꝙ̄ iter
eūdē ꝛ ſuū ꝗ̄drum. Et ſic ꝑ idē arr ꝙ in 3ª ꝑte ꝓporli eqvelo-
citer deꝑdet de poª ſic in 2ª:ꝛ ſic in ifim.g̊ totū finite tarde
deſinet in eiº poª diminui:ꝛ cū tā ꝗ̄titas minorabit ad nō
gm ꝙ̄ ēt lumē.g̊ eē poſſet illud augmētari a nō ꝗ̄to ꝛ a nō
gº luis:cū h ꝙ ſolū finite tarde icipet augmētari in poª.g̊
ꝯclo eſt falſa ſcḋm ex reglis ꝓpoſitis:g̊ ille regle ſunt fal-
ſe. ¶ Pro iº dī ꝙ vbi tā ꝗ̄titas ꝙ̄ ēt gm finite velor incipit Rñº
augmētari a nō gº ꝙ tūc in ifim tarde incipit totū augmē-
tari in poª:qḋ ſic p3.ponat idē de.a.ꝛ ſit.b.certe ꝗ̄titatis in ꝗ̄
itēdat lumē a nō gº eqvelor ſic in.a.ꝛ ſeqt ꝙ.b.ſolū finite
velor icipit augeri in poª:q2 eſt certe ꝗ̄titatis ꝛ certe velor reª.

ſui iam illiꝰ lumē incipit intēdi: ſȝ īfinite velociꝰ incipit.b. intēdi in poª q̄ȝ.a.ḡ īfinitū tarde incipit.a.ↄñtia pȝ:⁊ minor arguit̄.a nō gradu incipit poª vtrīuſq; itēdi:⁊ īfinitū maioris potētie incipit.b.cē q̄ȝ.a.ḡ in īfinitū velociꝰ incipit.b. itēdi q̄ȝ.a.ↄñtia pȝ:⁊ minor ꝓbat̄:q2 īfinite maius incipit b.cē q̄ȝ.a.⁊ ſub eodē gradu luminis:ḡ in īfinitū maioris potētie incipit.b.cē q̄ȝ.a.⁊ per ↄñs īfinitū velocius incipit.b. itēdi in poª q̄ȝ.a.⁊ ſic ꝓbat̄ pars affirᵃ ↄñtis:vbi tñ quātitas ⁊ lumē in īfim velociter incipiūt acq̄ri:tūc nō opȝ illas ptē affirᵛᵃȝ fore veraȝ.Et illud ꝓbat̄ q̄ñ arguit̄ ad oppōm ↄñis.Et ꝙ in caſu iſto poſito infinite velociter deſinet lumē deꝑdi ⁊ ēt q̄titas/ſic pȝ.in oī pte ꝓporˡⁱ ſic diuiſa deꝑdet̄ lumen ad ſubduplū:ḡ in duplo minor latitudo luminis deꝑdet̄ in 2ª pte ꝓporˡⁱ q̄ȝ in pª:⁊ tp̄s eſt ſubquadruplū:ḡ in duplo velocius minorabit̄ lumen in 2ª pte ꝓporˡⁱ q̄ȝ in pª.⁊ per idē argm in duplo velociꝰ in 3ª q̄ȝ in 2ª:⁊ ſic in infinitum:ḡ īfinite velociter deſinet lumē deꝑdi:⁊ ſic oīno arguet̄ de deꝑditione q̄titatis. Jdeo illud argm bñ ꝓbat ꝙ.a nō quāto pōt luminoſuȝ augeri ⁊ a nō gradu luminis itēdi:dum tñ finite velociter ſolū incipiat intēdi in potentia: ſcilȝ vbi incipit eē infinita velox acq̄ſitio luminis:⁊ etiā quantitatis ⁊ non aliter ⁊c̄.

❡ Tractatus 13ꝰ De actione luminoſi.

SEquitur de actione luminoſi tang̃.Et pº nūqd omne luminoſuȝ agat totā ſuā latitudinē in omne mediū in q̄d ſufficit agere.Et 2º nūqd agat vniforᵗ q̄tū ad latitudinē.

Ↄtra pm dubiū. ❡ Cōtra pm arguit̄.Omne mediū pōt meliꝰ diſponi ad ſuſceptionē luminis q̄tūcūq; bñ diſponat̄:ḡ nullū agēs ſpūale agit tā itēſe qn itēſius poſſit agere.

2 ❡ Jtem tūc ageret oēm gradū citra gradū quē habet. ↄñs falſuȝ:q̄d ſic arguit̄.dēt̄.a.luminoſum agēs in.b.mediū ſi.b.per totū diſponat̄ melius ad oēȝ pūctū itrinſecū intēdet̄ lumē.ḡ per idē cū nō īfinitū meliꝰ applicet̄ pūcto ſibi īmediato q̄ȝ pūcto diſtāti:ſeq̄t̄ ꝙ ad punctū ſibi imediatū pōt lumē intēdi rōne alicuiꝰ diſpōnis medij.

3 ❡ Jtē ſeq̄t̄ ꝙ nullius difficultatis eſt agere totā latitudinē a gradu ipſius.a. vſq; ad non gm:q2 q̄tūcūq; modice potētie ſit aliq̄d luminoſuȝ ſub gradu.a.ipm ſufficit totā illā latitudinē agere. ❡ Jtē ſignent̄ 2ª pūcta:q̄rū vnū ſit ſibi imediatū ⁊ reliquū diſtās:tūc actio eiꝰ ad vnū pūctū ꝓportionat̄ actioni eiuſdē ad aliū punctū. Si ḡ per indiſpōnē medij

Rñſio pōt vna actio īpediri:ḡ ⁊ alia actio. ❡ Jdeo forte dī ꝙ tale luminoſum nō agit gradū ſuū ſeu latitudinē a ḡdu ſuo ad nō gradū in omne mem in q̄d ſufficit:⁊ ēt ꝙ ad oēȝ pū

Cōtra ctū medij per ciꝰ indiſpōnē remittet̄ lumē. ❡ Cōtra.ex h̄ ſeq̄t̄ ꝙ tota latitudo luminis nō pōt induci:q2 ſi ſic ſit.a.luminoſum agens per.b.pedale:⁊ ſit ita ꝙ.a.nō inducat totā latitudinē vt ponit rñſio.vel ḡ pōt.b.rareſieri:ita ꝙ tota latitudo inducat̄ vel nō.ſi nō/ſequit̄ ꝙ illa latitudo cēt inanis ſic locus cēt inanis in quo nihil poſſet locari. Silr experimur ꝙ ita forte lumē ſentimus in medio ſic̄ in luminoſo agente vel in nulla ꝓporᵉ minus debile. Si ḡ dicat̄ alia pars ꝙ tota latitudo pōt induci:rareſiat ḡ.b.mediū: ⁊ ſit.c.inſtās in quo aget pm per mediū.b.totā latitudinē illā:tūc.b.erit finite rarū.Si ḡ poſt rarefactionē nō intēderet̄ lumē ad pūctuȝ.b.ſibi imediatū:q2 tota latitudo in.c. inſtāti inducet̄:quā.ſ.ipm ſufficit induc̄e. Ponat̄ ḡ.f.mem magis rarū q̄ȝ erit.b.in.c.iſtāti:⁊ ſeq̄t̄ ꝙ nō intēſius lumē aget tūc.a.in.f.q̄ȝ in.b.indiſponat̄ ḡ.f.ad diſpōnē.b.⁊ ſeq̄t̄ ꝙ illa indiſpoſitio nō tollet eiꝰ actionē ad pūctū ſibi imediatū in.f.ḡ iterū poſſet fieri aliq̄ indiſpoſitio cū h̄ ꝙ nō remitteret̄ lumē ad pūctū ſibi imediatū in.f.⁊ ꝑ ↄñs non in.c.iſtāti pº ſufficiet agere totā ſuā latitudinē in.b.mediū: ⁊ ſic pȝ vel ꝙ talis latitudo nō poſſet induci:vel ꝙ indiſpoſitio medij nō facit luminoſuȝ minꝰ itēſiue ag̃. ❡ Pro 1º ḡ dī ꝙ luminoſuȝ agit ſubito totā ſuā latiᵗᵘᵈ in oī medio vel in oīe in q̄d ſufficit agere:nō tñ ꝑ eq̄lē diſtātiā agit in omne mem:ſȝ in mem rarius agit per maiorē diſtātiā q̄ȝ in dēſius. ❡ Et tūc ad arm pm negat̄ ↄñs. ❡ Et ad arm 2m dī ꝙ vt ſic.a.in īfim meliꝰ applicat̄ ad pūctū ſibi imeᵈᵐ q̄ȝ ad pūctū diſtāte:q2 in infim ꝓpinquū eſt idē q̄d eſt imeᵈᵐ alicui q̄ȝ ſit idē q̄d diſtat ab eodē. ❡ Et ſic dī ad 3m ↄcēdo ꝙ nulliꝰ diffiᵗⁱˢ eſt agere tātā latitudinē ſicut eſt a gª vſq; ad nō gm:q2 ab īfinita modica poª hūiꝰ latitudo pōt induci. ❡ Sȝ tūc ad 4m arm negat̄ ↄñs. ❡ Uñ pro ſolōne argᵗⁱ eſt nōm ꝙ q̄ñ luminoſuȝ agit in mediū nō remittit̄ lumē ad pūctuȝ aliquē diſtātē niſi rōne indiſpōnis facte īter luminoſuȝ ⁊ pūctū illū:q2 dēt̄ pūctꝰ mediꝰ gr̄a argti:ſi tūc nō fiat indiſpoſitio īter luminoſuȝ ⁊ illū punctū:tūc tota illa pars ↄtinue erit ſilis diſpōnis ſic̄ in pnᵒ:ḡ in illa pte eq̄lis actio erit pnᵗ:ex q̄ luminoſuȝ illi pti pnᵗ equalr applicabit̄. ❡ Jtē ſi indiſpoſitio in pte vltra pūctū talē ad illū pūctū faceret lumē remitti:ſeq̄t̄ ꝙ nullū luminoſuȝ poſſet agere totā ſuā latiᵗᵘᵈ in meᵒ aliq̄ qualrcūq; cēt diſpoſitū:q2 ſi ſic agat.a.in mem.b.totā ſuā latiᵗᵘᵈ.ↄtra.diuidat̄.b.mediuȝ in ptes ꝓporˡᵉˢ:⁊ ſint minores ptes v̄ſus.a.tunc ſȝ pma pars ꝓporˡⁱˢ cēt ablata.a.nō ageret ad pūctū ſibi imeᵈᵐ gm itēſiorē q̄ȝ ſit gª ſuus.Et ſilr ſȝ 2ª pars erit ablata ⁊ 3ª:⁊ ſic in īfim.ſȝ per rñſionē pª pars ꝓporˡⁱˢ ſi reapponeret̄ īpediet actionē:q2 ſi indiſponeret̄ īpediret actionē in illa pte itercepta:ḡ a fortiori lumē remiſſius agitur q̄ȝ ſi illa pars cēt ſimplr amota:⁊ ſic 2ª pars ꝓporˡⁱˢ īpediret:⁊ ſic in infim:ḡ nūc nō pōt agere gm ſuū ad punctū ſibi imeᵈᵐ:imo argᵗ ꝙ nullū gm pōt agere ad pūctū imeᵈᵐ:q2 ſi in īfinitū modicū cēt mem nō ageret gm itēſiorē q̄ȝ eſt gª ſuꝰ:ḡ nūc nō agit aliquē gm poſito meᵒ vniforᵗ. Nā 2ª ps ꝓporˡⁱˢ ſm iſtā diuiſionē aliq̄lr īpedit actionē ſuā ꝑ datū.⁊ pª pars ꝓporˡⁱˢ tātū vel aliquātū īpedit:ḡ nō agit in.b.aliq̄s gª. Si.n.tātū īpediat pª pars ꝓporˡⁱˢ ſic̄ 2ª:⁊ eↄ:q2 pª eſt dupª ad 2ª:⁊ in duplo plus diſtet pª ab.a.q̄ȝ diſtat 2ª ab eodē.ḡ ꝑ idē 3ª tātū īpedit ſic̄ 2ª:⁊ 4ª tātū ſic̄ 2ª:⁊ ſic in īfim.ḡ oēs ille ptes totā eiꝰ actionē īpediūt.Si ḡ ponat̄ ꝙ pª nō tātū īpedit ſic̄ 2ª.ḡ 2ª plus īpedit q̄ȝ pª.⁊ per idē plus īpediret 3ª q̄ȝ 2ª:⁊ ſic in īfinitū.ḡ oēs ille ptes tātuȝ vel plus īpediēt q̄ȝ.a.ſufficiat ad pūctū imeᵈᵐ ag̃. ❡ Jdeo forte dī ꝙ hꝫ ptes diſtātes īpediūt actionē ad pūcta diſtātia:ita ꝙ ad illā remiſſiꝰ lumē agit̄ q̄ȝ ſi pars reſidua cēt ablata. ❡ Cōtra.ex h̄ arᵗ ꝙ ad nullū pūctū itrinᶜᵘᵐ eſt actio:q2 ſi tota pars vltima īpediat actōeȝ ad illū pūctū ſit ille.d.⁊ diuidat̄ tota ps illa in ptes ꝓporˡᵉˢ v̄ſus.d.⁊ ſequit̄ ſi pª pars ꝓporˡⁱˢ illiꝰ ptis īpediet actionē ad.d.pūctū ꝑ aliq̄ȝ latitudinē.ḡ per idē 2ª tātū īpediet ſic̄ pª.ſic.n.eſt ſubdupla ad pª:ita ſm ſe totā eſt in duplo ꝓpinqor.d.pūcto q̄ȝ eſt pª pars ꝓporˡⁱˢ:⁊ per idē 3ª tātū īpediet ſic̄ 2ª:⁊ ſic in īfinitū.ḡ oēs ille ptes īpediēt tātū vel plus ad.d.pūctū q̄ȝ.a.luminoſum ad illū ſufficiat agere:⁊ per ↄñs ad.d.non erit actio. ❡ Ad idē arguit̄ ꝙ ſcōa pars ꝓporˡⁱˢ tātū īpediet ſic̄ pª:q2 ſit.e.pūctꝰ medius inter pmā ptē ꝓportionalē ⁊.d.pūctū.vȝ.terminās 2ᵃᵐ:⁊ capiat̄ pūctꝰ imediatꝰ illi pme pti ꝓportionali qui ſit.f.⁊ arguit̄ ſic.Si pª pars ꝓportionalis cēt ablata ad iſtū pūctū.f.terminātē pmā cēt certꝰ gradus luminis actus ad quē pūctū nūc eſt actꝰ gradus in certa ꝓportione remiſſior. Sȝ ſcōa pars ꝓporˡⁱˢ eq̄ bñ approximat̄ ad.e.pūctū ſic̄ pª ad pūctū datū.f.terminātē pmā:ḡ nō minus q̄ȝ ſubduplū īpediet 2ª pars ad.e.pūctū q̄ȝ pª ad pūctū terminātē pmā qui ſit.f.Sȝ pª pars ꝓportionalis plus q̄ȝ in duplo meliꝰ applicat̄.f.puncto q̄ȝ.e.pūcto.ḡ pª pars ꝓporˡⁱˢ plus q̄ȝ in duplo maiorē latitudinē īpediet ad.f.q̄ȝ ad.d.Et ſi ſic totū impedimētū ſcōe ptis ꝓportionalis ad.e.pūctū eſt maiꝰ q̄ȝ impedimē tū

pedimē tū

2ª ꝓpō.

Ad arm

Nota.

pedimentū prime ad eundeʒ. Minor pʒ: qꝛ pa pars ꝓportionalis eſt imediata.f.ꝛ nō.e.pūcto. Et ex ꝯñti ſic arguiť. Capiať latitudo per quā 2a pars ꝓportionalis impediet actionē ad.e.punctū: ꝛ tota latitudo per quā pa pars ꝓportionalis impedit ad eundeʒ que eſt minor: tunc vt poſt argueť: omne tale luminoſuʒ agit vniforr difformiter in mediuʒ vniforme. Deť ergo tota latitudo que in pno fuit acta inter.e.ꝛ extremū cui applicať luminoſuʒ. Et ſequiť exquo ia latitudo fuit vniforr difformis deducta pma pte ꝓportionali ꝛ ſcda latitudo acta ibi deducta pma parte ꝓportionali eſt vniforr difformis: ergo latitudo per quā impedieť a ſcda parte ꝓportionali eſt vniforr difformis: qꝛ ex duabus latitudinibus: quaꝝ vna eſt vniforr difformis non fit latitudo vniforr difformis niſi vtraqʒ fuerit vniformiter difformis: vt ꝓbať vbi tangiť de inductiōe gd luminis ꝛ vtraqʒ latitudo per quā ipediť terminať ad nō gradum ad luminoſuʒ: ḡ ad oēm punctū iter.e.ꝛ luminoſuʒ eſt maius ipedimentū per ſcdaʒ partē ꝓportiōaleʒ ꝙ per pmā: ꝛ vtraqʒ latitudo eſt vniforr difformis. Segť ergo ꝙ ad d.punctū tātū vel plus impediet ſcda pars ꝓportionalis ſicut pa: ꝛ per ſile arm 3a tantū vel plus ſicut 2a ꝛ ſic in ifim: ergo ad illum.d.punctū nihil erit actū qd fuit ꝓbandum. ¶ Sequiť igiť illud ꝓbādum.ſ.ꝙ ad nulluʒ punctū erit remiſſio luminis ſtante luminoſo niſi rōne indiſpoſitiōis inter punctū ꝛ illud luminoſuʒ agēs. cū ergo inter luminoſum ꝛ punctū imediatū ſibi nulluʒ ſit mediū qd indiſponi poſſit: ſequiť ꝙ qualitercūqʒ mediū remotius a luminoſo indiſponereť ad punctū ſibi imediatū nunꝙ remittereť lumen: ideo nulluʒ arm ad oppoſitū ꝓcedit: qꝛ qdlʒ ſup hoc depēdet.vʒ. ꝙ indiſpoſitio medij ad punctū imem ipediretur ſicut ad puncta intrinſeca qd eſt iprobatū.

2m dum. **Ad ſecūdum** ergo arguiť pmo ꝙ luminoſum nō pōt agere latitudinē vnir difformē a gradu ſuo vſqʒ ad nō gradū per mediū vniforme: ꝛ hoc vniforr: qꝛ ſi ſic ſit.b.illud mediū ꝛ.a.luminoſuʒ. Et arguiť ꝙ.a.agit per totū mediū infinitū.ſ.ſi.b. ſit infim in cuius aliquā ptē agit. ꝛ 2o ꝓbať ꝙ agit gm infinitū luminis. ꝛ 3o ꝙ ad nulluʒ punctū aliquē gm aget. ¶ Primū ſic arr. Sit.b.mediuʒ infim in cuius aliquā pteʒ agit. ꝓbať ꝙ.a.agit per totū: qꝛ ſi nō ſit.c.punctus vbi ſua actio terminať: ꝛ ſit.d. punctus medius inter.a.c. arr tūc ſic. Ad pūcta remotiora eque intēſum gm aget ſicut ad ꝓpinquiora ſi eſſet eque ꝓpiquū illis: ḡ nulla eſt cā: quare remiſſius agit ad puncta remotiora ꝙ ad ꝓpinquiora: niſi qa plus ab illis punctis remotioribus diſtat: ḡ ſicut pūcta ſunt remotiora: ita ad illa eſt gs luminis remiſſior actus. Cuʒ ḡ.c.per in duo plus pciſe diſtet ab.a.ꝙ.d. diſtat ab.a.ſegť ꝙ in duplo remiſſior gs luis agiť ad.c.ꝙ ad.d.ꝛ per ꝯñs.a.ad.c.ſufficit agē aliquē gm: ꝛ ſi ſic ad punctū remotiorē pōt agere gm aliquē remiſſiorē: ḡ ad.c.nō terminabiť ſua actio: ꝛ ſic de oi alio pūcto eſt arguēduʒ: ergo nullibi termiabiť eius actio: ḡ per totū ageret. pʒ ḡ primuʒ.

2 ¶ Scdm ſic arr. Ad.d.punctū eſt aliqs gs actus ꝛ ad pūcta ꝓpingiora.a.agiť gs intēſior ꝑ ꝓpinquitatē maiorē: ergo ſicut pūcta ſunt ꝓpingiora.a.ꝙ eſt.d.pūctus: ita ad illa agiť gradus intēſior ꝙ ad.d.ſʒ infim ꝓpingior eſt aliqs pūctus.b. ipſi.a.ꝙ eſt.d.ḡ in ifim intēſior gradus agiť ad aliquē punctū.b.ꝙ ad.d.ꝛ ad.d.aliqs certus gs eſt actus: ḡ infim intēſus

3 gradus agiť ad aliquē punctū qd fuit ꝓbāduʒ. ¶ Tertiū ſic arr vt prius in ifim ꝓpingior eſt aliqs punctus.b.a.ꝙ eſt.d. ergo infim intēſior gs agiť ad aliquē punctū.b.ꝙ ad.d. ſed ad nulluʒ punctū agiť gs infinitus: qꝛ nullus gs intēſior ꝙ eſt gradus.a.luminoſi: ḡ ifinite remiſſius gs agiť ad.d.qd fuit intētuʒ. ¶ Ad idē ſic arr. Agat.a.lumioſuʒ in.b.c. media: ꝛ ſit.b.in duplo dēſius.c.ꝛ ſit.d.vnus punctus in.b. ꝛ.e. vnus in c.equalr diſtātes ab.a.tūc.a.remiſſius lumē agit ad.d.pūctū ꝙ ad.e.cuius cā eſt denſitas maior in.b.ꝙ in.c. ḡ ꝓportionabilr ſicut.b.eſt denſius.c.ita remiſſior gs agiť ad.d.pūctū ꝙ ad.e.pōať ḡ ꝙ ad.d.agať ḡdus ſubduplus ad gm.a. ꝛ ſegť per argm factū ꝙ ad.e.aget gradus.a.ꝛ ad oēm punctū iter.a.ꝛ.e.ageť gs intēſior ꝙ ad.e.ḡ ad oēm citra.a.erit gs intenſior ꝙ eſt gs.a.ꝛ ad punctū imediatū ipſi.a.nō erit gradus intenſior: ergo illud lumen nō erit vniforr diffor.



c.mediū denſuʒ vt.2. b.mediū denſuʒ vt.4.

¶ Itē ſic agat.a.per.b.mem vniforr totā ſuā latitudineʒ a gs ſuo vſqʒ ad nō gm: ꝛ ſit.d.pūctus medius: ꝛ ſit.e. pūctus terminās pmaʒ quartā.ſ. medius iter.a.d.tūc ſi lado ſit vniforr diffor extēſa ad.d.pūctū erit gs medius iter gm ipſius.a. ꝛ nō gm vt ꝯſtat. ſʒ ꝯñs eſt fl'ʒ: ḡ añs eſt flʒ.ſ.ꝙ lumē vnir diffor eſt actū. falſitas ꝯñtis arr ſic.d.pūctus ē in duo remotior ab.a. ꝙ ē.e.pūctus. ḡ nō agiť gs remiſſior ad.d.ꝙ ad.e.niſi ꝑ diſtantiā. Sed ḡ ꝙ in duo remiſſior gs agiť ad.d.ꝙ ad.e.ꝛ ad e.agiť gs remiſſior ꝙ eſt gs.a.ḡ agiť ad.e.gs rēiſſior ꝙ ſubduplus ad gm actū ab.a.ad pūctū ſibi imem: ſegť ḡ lumen actū nō eē vnir diffor. ¶ Itē ſic maioreť.a.in qntte ſtante ipſo in gs: ꝛ ſed ꝙ ad pūcta remotiora velocius intēdeť lumē ꝙ ad ꝓpingiora: exq̄ ad pūctū imem nō itēdiť lumē illd: B tn melius ꝓbabiť in poſterū. ḡ ſi mem illd ꝯdēſeť: ita ꝙ ad oēʒ pūctū ideʒ gs luis ꝯſeruet: qui ad illū punctū eſt actus: ſegť ꝙ ad puncta remotiora vel ad ptes remotiores velor erit ꝯdēſatio ꝙ ad pūcta ꝓpigora. Et qꝛ ad pūctū imem agēti no eſt itēſio luis ad illū no erit ꝯdēſatio: ꝛ ꝑ ꝯñs in fine erit lumē vnir diffor ꝑ mem diffor: ꝛ ſi ſic non ſufficiet agē lumē ſuū vnir diffor ꝑ mem vniforr. ꝯñtia ꝓbabiť inferius. ¶ Ad aliā ptē arr ꝓbādo ꝙ lumioſuʒ agit lumē vnir difforr ꝑ mem vniforr. Sit.n.a.luminoſuʒ vniforr ꝛ.b.vniforr mem ꝑ qd agat.a.tūc ad oēʒ pūctū agēt.a.gm ſuū ſi ad punctū illū eēt applicatū ſicut nūc facit ad pūctū ſibi imediatū: exq̄ mem eſt vniforr ꝑ totū: ꝛ nūc nō ad oēʒ punctū agit gm eqleʒ vt oēs loquētes de hac mā ꝯcedūt: imo exꝑimētum idē docet. etiā pʒ ꝑ B ꝙ agēs hō fortius agit in ꝓpinquū ꝙ in remotū. Silr ſi ad oēʒ pūctū agēt gm eqleʒ: ḡ ſi mem illd eēt infim per totū illud mem ageret vt deductū eſt: qꝛ ſi ad aliquē pūctū ſufficēt tātū gm agē ad pūctū remotiorē ſufficeret aliquē gm remiſſiorē agē. cā ḡ ieqlis actiōis eſt ipedimentū dūtuʒ rōne diſtātie maioris vnius pūcti ꝙ alterius. ḡ ſicut diſtātia vnius pūcti ab.a.eſt maior diſtātia alterius pūcti ab.a.ita ipedimētū ad pūctū magis diſtātē eſt maius ꝙ ad punctū ꝓpingiorē. cū ḡ ſuū ipedimētū ad pūctū diſtāteʒ nō ſit ſimplr ab actiōe ſʒ ab actiōe ſui gs: ſed ꝙ ſicut pūcta plus diſtāt ab agēte: ita ꝑ maiorē latineʒ ipedieť.a.ad puncta remotiora ab actiōe ſui gs ꝙ ad ꝓpingiora: ḡ totū lumē actū eſt vnir diffor. vbi.g.extrem remotius ab agente indus plus diſtat ab.a.ꝙ pūctus medius: ḡ ad illud extrem ꝑ in duo plus diſtabit actio acta ab.a.ꝙ ad mem ꝛ ad extrem ꝑ totā latineʒ: ḡ ad mem erit gs medius totius latinis: ꝛ ita erit de oi a pte ꝙ ſicut extrem eius remotius ab.a. ꝑ indus plus diſtabit ab.a.ꝙ medius pūctus illius: ita gs actus ad extrem ꝑ indus plus diſtabit ab.a.ꝙ gs actus ad pūctū mem: ḡ totū eſt vniforr diffor. ꝯñtia pʒ per deſcriptionē vnir difformis qꝛ.ſ.in oi pte eqli ſit eqlis latido: ꝛ ꝙ mediū eqlr excedať ab extremo intēſiori ſicut ideʒ mediū excedit extremū remiſſius: ſicut.n.eſt de oi vniforr difformi ꝙ ꝓporr ſicut puncta ſunt remotiora: Ad ptes oppoſitas

ab extremo intensiori:ita gradus corridens pūcto remotiori per plus distabit a gradu corridente extremo intensiori:qꝛ exquo totū est vnifor' diffor' in oī pte eqͣlı est eqͣlis lati⁹:ꝛ gradus corridētes punctis remotiorib⁹ ꝑ plus distāt ab extremo intensiori q̄ꝫ corridentes punctis min⁹ ab extremo eodem distātib⁹ soluꝫ ꝑ latitudineꝫ inter illa pūcta vel iter gradus illis pūctis corridēte:ergͦ sicut distātia vni⁹ pūcti in vnif' difformi ab extre⁹ itēsiori est maior: ita defect⁹ lati⁹ ab extre⁹ intēsiori est maior ad illuꝫ punctū q̄ꝫ ad punctū min⁹ distāteꝫ:ita ꝙ ista ꝯuertibil'r se habent.s.eē vnifor' diffor':ꝛ ꝓpter' sicut pūcta sunt remotiora ab extre⁹ intensiori:ita illa per plus distāt intensiue ab extre⁹ itēsiori toti⁹. Sꝫ sic est vbicūqꝫ luiosuꝫ vniforme agit in meᵐ vnifor':igit oē luiosuꝫ agēs in meᵐ vniforme agit lumē vnifor' diffor' vnifor' e ꝛ tēsuꝫ:qᵭ fuit intentum.

Ad arᵐ oppoᵐ ⁋ Per istud arᵐ rndeṫ argumētis ꝑ factis ꝯ ꝯnem illam negādo illa ꝯᵃ ꝑmo adducta. Et ad arᵐ qñ sic ar'. Nō ipodiṫ ab actiōe magis ad pūcta ꝓpinquiora q̄ꝫ ad remotiora nisi ꝓꝑ distātiā:ergͦ sicut pūcta sunt remotiora:ita ad ista lumen remissi⁹ agiṫ. negaṫ ꝯña:sed soluꝫ seqᵗ ꝙ sicut pūcta ab agēte sunt remotiora:ita gradus ad illa acti ꝑ maioreꝫ latiᵉꝫ distāt a gradu agētis.ꝛ illud est cōcedendū:qꝛ ipedimētū ꝑ distātiā nō est simpl'r ab actiōe sꝫ ab actiōe sui gᵉ. ꝛ sic est negāda ꝯña qñ ꝯcluditᵉ ꝙ sicut puncta sunt ꝓpinquiora:ita lumē intēsius agiṫ ad illa q̄ꝫ ad pūcta remotiora. Sed bñ seqᵗ ꝙ sicut puncta sunt ꝓpinquiora: ita ad illa gradus acti ꝑ min⁹ distāt a gᵘ agētis:ꝛ illud est ꝯcedendū tanq̄ꝫ verū.ꝛ sic soluūtur 1ᵘ ꝑᵃ arᵗᵃ. ⁋ Ad 2ᵐ argᵐ cōcediṫ ꝙ ad.d.punctū agiṫ gradus remissior q̄ꝫ ad.c. ꝓꝑ densitatem maiorē.ꝛ negaṫ ꝯña vltī⁹ qñ cōcluditᵉ: ergͦ sicut.b.est densius.c.ita gradus actus ad.d.est remissior gᵘ acto ad.c. Sed seqᵗ ꝙ sicut.b.est densius.c.ita gradus act⁹ ad.d.per plus distat a gᵘ agētis q̄ꝫ gradus act⁹ ad.c.ꝛ illud est ꝯcedēduꝫ. Sit eniꝫ.b.in duplo dēsius.c.ꝛ capio ptē inter.d.ꝛ pūctuꝫ imediatū agēti:ꝛ seqᵗ ꝙ inter ista duo pūcta est tanta latitudo ꝑcise sicut est inter punctū.c.in du⁹ plus distāteꝫ ab extre⁹ intēsiori suo:qꝛ a gᵘ.a.luiosi in du⁹ plus distat q̄ꝫ distet.c.ideo.d.in du⁹ plus distat a gᵘ.a.luminosi q̄ꝫ distet.c. ⁋ Ad 3ᵐ argᵐ cōcediṫ ꝙ si.a.maioraṫ q̄ꝫtitatiue stāte ipo in gradu:ꝙ ad puncta remotiora veloci⁹ intēdeṫ lumē q̄ꝫ ad ꝓpinquiora. Et negaṫ ꝯña qñ ꝯcluditᵉ:ergͦ si per ꝯdēsationē ipediret vꝫ ab intēsione luminis,maior erit ꝯdēsatio in ptē remotā q̄ꝫ ꝓpinquā. Et ꝑmo argᵉ formā argumēti nō valere in alia mā vt sint.a.b.due po'quaꝝ vtraqꝫ sit vt 4ᵒʳ: ꝛ.c.mediū resistens vt duo:ꝛ.d.mediū resistēs vt vnum:ꝛ crescat.b.ꝯtinue in du⁹ veloci⁹ q̄ꝫ.a.tūc.b.veloci⁹ crescet ꝛ veloci⁹ intēdet motū suū in.d.q̄ꝫ.a.in.c.ꝛ tñ ad hoc ꝙ neutruꝫ illoꝝ intēdat nō reqriṫ.d.crescere velocius q̄ꝫ.c. qꝛ si eque' inciperet.d.crescere sicut.c.in duplo veloci⁹ ꝓportionabil'r inciperet.d.crescere q̄ꝫ.c.exquo est subdupluꝫ: ergͦ.c. crescet in duplo tardi⁹ q̄ꝫ.a.si mot⁹ eius ꝯseruabiṫ: ꝛ.b.in duplo veloci⁹ crescet q̄ꝫ.a.ergͦ cū.c.in duplo tardius crescet q̄ꝫ.a.mot⁹ eius ꝯseruabiṫ:ꝛ.c.in quadruplo tardi⁹.b.si motus ei⁹ ꝯseruabiṫ:ꝛ.b.in du⁹ veloci⁹ crescet q̄ꝫ.a.ergͦ.d.in duplo tardius ꝑcise crescet q̄ꝫ.a.ꝯña satis pꝫ: ergͦ ad hᵒ ꝙ mot⁹ a.cū.c.ꝛ mot⁹.b.cū.d.ꝯseruabunṫ,reqriṫ.c.d.eque' ꝑcise crescere.ideo nō valet argᵐ de forma:nec valet illud argᵐ de mā:qꝛ signeṫ illud mediū ꝛ deṫ pars remota:tunc si in pte ꝓpinquiori fiat ꝯdensatio:ꝛ nō in remotiori:adhuc in illa pte remotiori erit remissio luminis:qꝛ intantū possꝫ ista ps ꝓpinquior ꝯdēsari ꝙ vltra illaꝫ ptem nō ꝓcederet actio luminosi manēte ista eqͣlis q̄ꝫtitatis vt ꝯstat:ideo ꝙ ita densa pōt ista ps fieri ꝙ per illaꝫ ptem nō sufficiet.a.luminosum agere. Sed si lumē actū in pte ista ꝓpinquiori terminetᵉ ad nō gᵐ in pte remotiori no erit aliqᵭ lumē actū:qꝛ nō ageṫ lumē in partē remotā nisi per ptem interceptam: ergo cōdensatio ptis ꝓpinquioris facit ad luminis remissionem in parte remotiori ꝛ nō econtra: ꝛ cōdensatio ꝓpria illius ptis remissioris ēt iuuat ad remissionē sui luis vt pꝫ: ideo cū eqͣli ꝯdensatiōe stat veloci⁹ lumē remitti in parte remota q̄ꝫ in ꝓpinqua:ideo lꝫ per maioreꝫ latiᵉꝫ erit ipedimentū intensionis luminis in pte remota q̄ꝫ ꝓpinqua per ꝯdensationē,nō sequiṫ ꝙ velocior erit ꝯdensatio in parte remota q̄ꝫ ꝓpinqua:ideo nō vꝫ argᵐ. ⁋ Pro planiori solutione argumētoꝝ in hac mā notāduꝫ est hec ꝯclō. Si luminosuꝫ aliqᵭ agēs in meᵐ vnifor' nō varieṫ: cuius pars aliq̄ imeᵐ agēti fiat densior nō mutata quātitate sicut opꝫ imaginari in ꝑᵃ mā ad oēm punctuꝫ ptis residue remotioris ab agēte per istā ꝯdensationē eque' remitteṫ lumen sicut ad extremū illi⁹ ptis ꝯdensate qᵭ est remotius a luminoso. ⁋ Ad qᵭ ꝓbāduꝫ ꝑmo arguiṫ:ꝙ vbicūqꝫ luminosum agit in mediū ad oēꝫ punctū medietatis remotioris ꝯseruaṫ ideꝫ gradus luis:sicut si ad illum punctū esset luminosuꝫ vniforme gᵘ isti puncto corridenti ꝛ equalis quātitatis cū luminoso agēte. Vbi grā.luminosuꝫ.a.agat gᵐ vt octo per.b.mediū:tūc ad punctū meᵐ erit gᵘ vt q̄tuor. ideo in ista medietate ideꝫ gradus luminis ꝯseruabiṫ: sicut si luminosuꝫ vt q̄tuor equalis q̄ꝫtitatis cuꝫ ꝑmo luminoso agēte ad illū punctū ponereṫ: tale.n.iuxta ꝑdicta foret in duplo minoris po' q̄ꝫ ꝑᵐ luminosuꝫ:sō ageret totā suā latitudinē vnifor' per subiectū in duplo minus q̄ꝫ.a.sui:ideo soluꝫ ageret per medietatē hui⁹ mediꝫ illaꝫ latitudinē.s.a q̄tuor vsqꝫ ad nō gᵐ:ꝛ ita facit ꝑᵐ luminosuꝫ. ⁋ Pro vlteriori ꝓbatiōe hui⁹ sic ar'. Sit.c.medietas.b.mediꝫ ꝓpinquior a luminoso agēti ꝛ ꝯdenseṫ medietas ꝓpinquior.c. stante alia. Et ar' ꝙ medietate remotiori ab.a.ꝯseruabiṫ eqͣle lumē sicut ꝯseruareṫ a luminoso existe ꝯtinue equalis quātitatis cū luminoso dato ꝛ sub gradib⁹ corrn̄suris illi puncto medio.c.qꝛ si nō deṫ id instās in quo erit ꝯdensatio cōpleta: ꝛ ponaṫ ꝙ ab isto instāti rarefiat medietas.c. que ꝑmo ꝯdensabaṫ vsquequo totū fuerit vnifor' raruꝫ:ꝛ remittaṫ.a.luminosuꝫ:ita ꝙ ad mediū punctū.c.cōserueṫ cōtinue idē gradus luminis qui ibi in fine ꝯdensatiōis erit tūc exquo ad meᵐ punctuꝫ nulla erit remissio luminis rōne remissionis luminosi ꝛ rarefactiōis mediꝫ:ergͦ ad nullū punctū vltra meᵐ erit remissio.ꝯña ꝓbabiṫ post. vbi argueṫ ꝙ qñ luminosuꝫ remitteṫ in gradu ad oēm pūctū eque' remitteṫ lumē sic ad aliquē:ꝛ in fine erit in medietate remotiori eqͣle lumē sicut si ꝯseruareṫ a luminoso equali in quātitate cū.a.ꝛ sub gradu tūc corrn̄suro illi medio pūcto c.exquo totū mediū erit vnifor' vt pri⁹ deductū est in exēplo:eo ꝙ sicut ille gradus est remissior extremo intensiori vel gᵘ corridente.a.luminoso:ita latitudo ab iᵒ gradu vsqꝫ ad nō gᵐ est minor: ꝛ illa q̄ꝫtitas per quā etiā extendiṫ est minor. Sed si foret luminosuꝫ vnifor' isto gᵘ sicut ille gradus est remissior gᵘ.a.ita illō luminosuꝫ esset minoris po' q̄ꝫ.a.ergͦ in ea ꝓportiōe per minorē distantiā ageret suā latitudinē:ergͦ ageret suā latitudinē per pteꝫ eqͣleꝫ sicut ista latitudo a gradu illo vsqꝫ ad nō gᵐ agiṫ per.a. igiṫ id est vl'r verū vbi est mediū vniforme ꝛ in casu ꝑdicto in iᵒ medio difformi.s.c.per medietatē remotiorē ab.a.erit ꝯtinue tantus gradus luis sicut erit ibi in fine cōpleta iᵉ rarefactiōe: ergo ꝯtinue ꝯseruabiṫ ibi eqͣlis gradus luminis sicut si ꝯseruareṫ a luminoso eqͣlis q̄ꝫtitatis cū.a.vniformi gradu puncto medio.c.ꝯtinue corrn̄suro. ⁋ Ex hac deduciṫ ꝯclō 13ᵃ quia sit iste punct⁹.d.terminās totā istam pteꝫ cōdensatā. Et arguiṫ ꝙ ad oēm punctuꝫ vltra.d. eque' remittetur lumen sicut ad.d.qꝛ ad.d.punctū ideꝫ gradus luminis ꝛ ad oēm vltra ꝯseruabiṫ:sicut ꝯseruareṫ a luminoso equali.a. quātitatiue sub gradu.d.puncto continue corrn̄suro. Sꝫ si

13ᵃ ꝯ.

14ᵃ ꝯ.

ponereť φ b₄ luminoſuȝ ſtans in q̃titate remitteret: ita φ
cōtinue maneret vnifor' gͦ luminis corrñ ſuo.d.puncto ad
oēm punctū vltra.d. eque uc' remitteret lumē ſicut ad.d.
vt poſtea ꝓbabiť.ſ.in ꝯne 18ª: ğ nūc ad oēm punctū vltra
d.eque' remitteť lumē ſicut ad.d. ¶ Ad idē ſic. Agat.a.lu
minoſuȝ per.c.meᵐ totā latⁱᵗᵘᵈ ab octo vſqȝ ad q̃tuor: ꝛ cō
denſeť medietas.c.ꝓpinquior ipſi.a. manēs vniformis den
ſitatis quouſqȝ fuerit in duplo denſior q̃ nūc eſt: ꝛ nō cō
dēſeť alia medietas.c.nec varieť ꝑ ꝯdēſationē nec aliūde
niſi ſoluȝ in lumie rōne ꝯdēſationis alteri' medietatis. Et
ſeqť exquo medietas.c.in fine erit in duplo denſior q̃ nūc
eſt φ ad punctū quelȝ ei' gradus luminis ꝑ in duplo plus di
ſtabit ab.a.q̃ in pⁿ°. Cū ğ ad pūctū meᵐ.c.ſit nᶜ gradus vt
ſex: ſeqť φ in fine erit gradus vt q̃tuor: ğ ad illuȝ punctū
erit nūc binari' deꝑdit': tūc arguiť φ ad extremū remoti'
c.ab.a.erit ēt binarius deꝑdit': ꝛ per ꝯñs ad mediū.c.ꝛ ad
extremū equalis latitudo deꝑdeť: ꝛ ſi ſic cū tota medietas
c.remotior manebit vniformiter difformis: q꞉ iſta ꝑs eſt
vniformis denſitatis: ſeqť φ ad oēm punctū illi' medieta
tis remotioris eque velociter remitteret lumē ſicut ad ex
trema: quia vnifor' difforme non manet vnifor' difforme
deꝑdita latitudie per ipm niſi deꝑdať gradus vniformis
vel latitudo vnifor' difformis: vt argutū eſt vbi tangiť de
inductiōe gradus ſūmi. Jam arguiť añs.vȝ.φ fcā ꝯdenſa
tione erit ad extremuȝ.c.gradus vt 2°: q꞉ ponať φ in alia
hora ꝯdēſeť medietas remotior.c.ad denſitatē alteri' me
dietatis: ꝛ ſeqť φ extremū in fine ꝑ in duplo plus diſtabit
a gradu.a.luminoſi q̃ nūc diſtet añ oēm ꝯdēſationem: q꞉
tūc erit.c.in duplo denſius q̃ nūc eſt per totū. ğ cuȝ ad id
extremū nūc ſit gdus vt q̃tuor: ſeqť φ ibi tūc erit nō gra
dus: ꝛ ad ei' meᵐ pūctū erit gradus vt q̃tuor: ğ medietas
remotior.c.tūc remitteť mediāte latitudie vnifor' diffor
mi ad nō graduȝ ad punctū meᵐ.c.terminata. Et φ ad ex
tremū remotius deꝑdeť binari' arguiť: q꞉ tunc erit 1ª me
dietas in duplo denſior q̃ ante ꝯdēſationē ei': ꝛ per iſtam
cōdenſationē ſolum remitteť lumē: ğ extremū illi' remiſ
ſius ꝑ in duplo maiorē latitudinē diſtabit ab extremo in
tenſiori eiuſdē medietatis q̃ ante iſtā ꝯdēſationē ꝛ in fine
diſtabit per q̃tuor: ğ ante ꝯdenſationē diſtabit ꝑ 2°: ꝛ per
ꝯñs binari' deꝑdeť. ꝯña pȝ: q꞉ vbicūqȝ in medio vnifor'
lumē per ꝯdenſationē vniformē remitteť quilȝ punct' to
tius ab extremo itenſiori ꝑ maiorē latitudinē intēſiue di
ſtabit ſicut fiet denſi' ꝛc. ¶ Nūc arᶜ vna ꝯclō ꝑacta.vȝ.ſi
mediū ſit difforme in quo luminoſuȝ agit lumen ſuū vni'
difforme in nullo medio vniformi pōt agere illud lumen
vni' diffor. q꞉ ſi ſic ſit illud lumioſuȝ.a.ꝛ.b.mediū diffor':
ꝛ.c.meᵐ vnifor': eq̃le.b.in quoꝝ vtroqȝ agat.a.latitudineȝ
vni' difformē a gͦ ſuo vſqȝ ad nō gͦ vnifor'. caſus pȝ ha
bita poſitate hui' φ in meᵐ diffor' agať lumē vnifor': q꞉ ſi
c.ſit min' q̃.b.ponať φ.c.rareſiat quouſqȝ fuerit eq̃le.b.ꝛ
ſicut ideȝ ſit rari': ita ſiat maioris q̃titatis. Et ſeqť φ ſicut
in pⁿ° agit totā latⁱᵗᵘᵈ a gͦ ſuo vſqȝ ad nō gͦ p.c.ita in fine
faciet. Maneat enīȝ.c.vnifor' in raritate: q꞉ ꝓpor' ſicut.c.
fiet rari': ita.a.ꝑ maiorē q̃titatē ſufficiet agere: ideo tūc in
fine ſufficiet agere per.c.meᵐ totā illam latitudinē: ꝛ tunc
erit.c.eq̃lis q̃titatis cū.b.ſi.c.in pⁿ° ſit maius q̃.b.fiat per
cōdenſationē vnifor' quo ad ſubm eq̃le.b.ita φ ſicut fiet
denſius: ita fiat minus in q̃titate: ꝛ ſeqť adhuc φ ſic in pⁿ°
agit totam latitudinē a gͦ ſuo vſqȝ ad nō gͦ vnifor': ita in
fine faciet ſicut pⁱᵘˢ argutū eſt: eo φ ſicut.c.fiet denſius: ita
fiet minoris q̃titatis. Seqť ğ φ ſi per.b.mediū difforme
pōt agere totā ſuā latitudinē vni': ꝛ per mediū aliqđ vni
forme: ğ per mediū vniforme illi difformi eq̃le pōt agere
totā illaȝ latitudinē vnifor': ergo hi caſus. Tūc ſic arguiť.
Uel.c.eſt vniforme gradu intenſiſſimo iſtius latitudinis
denſitatis vel gradu remiſſiſſimo vel aliquo gradu intrin
ſeco. Si gͦ intēſiſſimo: ğ eſt magis denſuȝ q̃ id difforme: ꝛ
eq̃le ſibi q̃titatiue: ğ nō aget in iſto ꝑ eq̃leȝ diſtātiā gduȝ
eq̃leȝ ſicut in iſto difformi. Jdē eſt arᵐ ſi ponať φ ſit vni
forme gͦ remiſſiſſimo iſti' latitudis dēſitatis. Si vͦo ponať
φ.c.ſit vnifor' aliq̃ gͦ intriſeco iſti' latⁱᵗⁱˢ dēſitatis q̃.b.eſt
difforme: vel ğ eſt.b.ſm ſe totū diffor': vel aliq̃ ꝑs eius eſt
vniformis. Si ſm ſe totū ſit difforme: ğ eſt aliq̃ ꝑs ei' ter
minata ad extreᵐ imediatū maioris vel minoris denſita
tis q̃ eſt dēſitas.c. Et ſi ſic nō ad eq̃lē diſtātiā ageuť in.b.
c.gradus eq̃les: vel nō ſaltē ad oīa puncta ageť eq̃lis gra
dus q̃.ſ.puncta.b.c.corrñdent. Uel ſic. Deť pūct' in.b.vbi
eſt eq̃lis gradus denſitatis ſicut eſt in.c. tūc ad illa pūcta
ageť gradus lūis eque itēſius. Sȝ cū.b.ſit per totū diffor'
in ꝑte terminata ad iſtū punctū erit denſitas maior vł mi
nor denſitate.c. Et ſic ad puncta eq̃lr diſtātia ab illis pun
ctis nō ageť gradus lūis eq̃lis. ꝯña ꝑ ꝯnem 14ᵃᵐ ſatis pȝ.
Si ğ aliq̃ ꝑs.b.ſit vniformis vel erit ꝑs terminata ad ex
tremū.b.imediatū.a.vel non. ſi ſic. vel ğ iſta ꝑs eſt vnifor'
denſa gͦ quo.c.eſt denſuȝ vł gͦ intēſiori vel remiſſiori. Si
intēſiori vel remiſſiori ſeqť φ nō ad puncta equalr diſtā
tia ageť gͦ eq̃lis. Si vͦo eq̃li: deť pars vel punct' vbi inci
piet eē difformē: ꝛ ſeqť φ ad iſtū pūctū necēo terminabiť
ꝑs magis denſa vł min' denſa q̃ ſit.c.denſuȝ: ğ ad omnia
equalr diſtātia ab illis punctis corrñdētib' ageuť gradus
ineq̃les: ꝛ hoc ſeqť ſiue ꝑs iſta reſidua fuerit vniformis ſiue
difformis. Si ğ nulla ꝑs terminata ad.a. ſit vniformis fiat
arᵐ ꝑcedēs φ ad id extremū terminabiť ꝑs magis vł mi
nus denſa q̃ eſt.c.ğ ſequiť φ nō ad oīa pūcta corrñdentia
iſtoꝝ.b.c.gradus eq̃les ageuť. ſeqť ğ ꝯ. ¶ Contra ꝯnem
14ᵃᵐ ſic obiciť. Sit.a.luminoſuȝ agēs in.b. meᵐ vnifor'
tatius.c.ſit medietas ꝓpinquior ipſi.a. ꝛ ꝯdēſeť medietas.c.
ꝓpinquior.a.ad duᵐ: ꝛ ſit in pⁿ° latitudo acta per.c. vnifor'
difformis ab octo vſqȝ ad q̃tuor: cui' medietas ꝓpinquior
etiā in alio tpe poſt rareſiat ad raritatē ꝑhabitā: ꝛ ſit nunc
id inſtās gr̃a arⁱ in quo ꝯdēſatio erit cōpleta: ꝛ ſit.b.lumi
noſuȝ eq̃lis q̃titatis cū.a.ꝛ ſub gͦ vt q̃tuor: qui eſt ad pun
ctū mediū.c.vt pȝ. Et remittať.a.in luie ipſo ſtāte in q̃titᵉ:
ita φ ad punctū meᵐ.c.ꝯtinue ſit ideȝ gradus lūis vt 4ᵒʳ:
ꝛ maneat.b.ꝯtinue vnifor' tali gͦ ꝗ ꝯtiᶜ corrñdebit puncto
medio.c.ꝛ ſit.d.lūioſuȝ oīo ſile.a.ꝛ ſit.f.ſile.b.lūioſo: ꝛ ſit.e.
mediū ꝯſilr diſpoſitū cū.c.fcā iſta ꝯdenſatione. Et ſeqť φ
d.lūioſum ꝯſilr agit in.e.ſicut.a.in.c.q꞉ lūioſa ſunt ꝯſilia ꝛ
media.rareſiat medietas.e.ꝓpinquior.d. ꝯſilr ſicut poſituȝ
eſt de.c.ꝛ ſeqť φ ſi.d.ſtaret ꝯtinue ad oēm punctū.e. intē
dereť lumē: ꝛ veloci' in ꝑte remota q̃ ꝓpinq̃: q꞉ iſta me
dietas.e.ꝓpinquior.d.ſemꝑ eſſet vni' denſa ꝛ vnifor' diffor'
illuminata: ꝛ ad extreᵐ imediatū.d.nulla latⁱᵗᵒ acquireretur.
Silr ſi.d.minoreť in q̃titate ſtante gradu ad pūcta remo
tiora veloci' remittereť lumē q̃ ad pūcta ꝓpinquiora: q꞉
ad punctū imediatū ſibi nullum lumē deꝑdereť. ponať ğ
d.minorari ſm q̃titatē: ita φ ad oēȝ punctū.e. idē gradus
luminis ꝯſeruet: ꝛ maneat.f.ꝯtiᶜ ꝯſile.b.ſicut nūc ſunt in gra
du fcā ꝯdenſatiōe: ꝛ maneat.f.ꝯtinue eq̃lis q̃titatis cuȝ.d.
quo poſito arᶜ pro fine in quo tota ꝯdēſatio cū rarefactiōe
cōplebiť: tūc erit.e.c.oīo ſilia in dēſitate. Capianť ğ pun
cta media eoꝝ: tūc ad illa pūcta erit gͦ lūis eq̃lis: ꝛ ad oīa
puncta vlteriora corrñdētia: ꝛ tūc erit.b.equale.a.ꝛ ſub gͦ
vt quatuor: ſic poniť in caſu. Et tūc ad oēȝ punctū.e. vltra
mediū erit lumē eq̃le ſicut ſi ꝯſeruareť a luminoſo eq̃li.d.
quātitatiue: ꝛ ſub eodē gͦ ꝗ tūc erit ad punctū mediū.f.gͦ
vt quatuor: ꝛ illud erit.f.ğ ad oēm punctū.e. vltra mediū
ꝯſeruabiť idē gͦ luminis vł ageť ſicut ageť ab.f.ꝛ.f. tūc erit
min'.b.q꞉.f.tunc erit eq̃le.d.ꝛ erit ſub eodeȝ gradu quo.b.
ergo cū iſta media tūc erunt eq̃lia: ſeqť φ.b. ad equalem

diſtantiã aget gᵐ intẽſiorem ꝙ̃.f.ꝗ ad oẽm punctũ.e.vltra
mediũ tũc agetꝛ gradus lũis intẽſior ꝙ̃ ſi ageretꝛ ab.f.ergo
ꝯclo ſt̃a. ¶ Pro iſto oȝ admittẽdo caſum de.a.ꝛ negatꝛ de
16ª ꝯ d.cuiꝰ cã ponetꝛ ꝓbatis p̃mo qbuſdaꝫ ꝯnibꝰ. ¶ Quaꝝ pᵃ
eſt hec. Ubicũqꝫ lũioſuꝫ agẽs in meᵐ vnifor' minoratꝛ in
q̃ntitate vel maioratꝛ ſtãte gᵘ ꝛ nõ variato meᵒ cũ alijs pa-
ribꝰ ꝓpor' ſicut pũcta ſunt lũioſo ꝓpingoraꝫita ad iſta tar-
17ª ꝯ dius itẽdetꝛ ſeu remittetꝛ lumẽ ꝙ̃ ad remotiora. ¶ Scd̃a
eſt hec. Ubicũqꝫ lũioſuꝫ agẽs in meᵐ vnifor' maneat nõ
mutatũ oĩo ꝙ meᵐ rareſiat vl' ꝯdẽſabitꝛ vnifor' ꝑciſe quo
ad ſubm:ita ꝙ ꝯtr' maneat vnifor' ꝓpor' ſicut pũcta ſunt
lũioſo ꝓpingoraꝫita ad illa tardior erit intẽſio vel remiſ-
18ª ꝯ ſio lũis. ¶ Tertia ẽ hec. Ubicũqꝫ lũioſuꝫ agẽs in mediuꝫ
vnifor' nõ mutatũ intẽditꝛ vel remittitꝛ in gᵘ manẽte eius
quãtitate ad oẽꝫ punctũ iſtiꝰ medij eque' intendetꝛ vel re-
mittetꝛ lumẽ ſicut ad aliquẽ. ¶ Prima ſic ar'. Sit.a.id lu-
minoſuꝫ:ꝛ.b.meᵐ vnifor':ꝛ maioretꝛ.a.in q̃ti'ᵉ oibus alijs
mutationibꝰ in ipſo:ꝛ in meᵒ deductis: ꝛ capiatꝛ iſta pꝫ.b.
per quã eſt lumẽ actũ:ꝛ ar' ſic. Ad oẽm punctũ intrinſecũ
intẽditꝛ lumẽ:qꝛ agitꝛ lumẽ ſuũ vni' diffor' per maiorẽ di-
ſtantiã:ꝛ ad pũctũ imediatũ nulluꝫ lumẽ agetꝛ:qꝛ ibi ſemꝑ
terminabitꝛ ad gᵐ ſuũ:ꝛ totũ nũc eſt vni' diffor' ꝛ cõtinue
eritꝗ latitudo iſta lumis iſti pti acqſita erit vni' difformis
ad nõ gᵐ terminata verſus.a.ꝯña ſic pꝫ. Si vni' diffor' ma
neat vni' difforme per intẽſionẽ:vel ſibi addetur latitudo
vni' difformis:vel gradus vniformis:vt pꝫ vbi tangitꝛ de
iductiõe gᵘ ſummiꝫ iſti pti nõ addetꝛ gradus vniformis
ſed latitudo terminata ad nõ gᵐ v'ſus.a. ꝗ latiᵗᵒ iſta acqſita
erit vni' difformis terminata ad nõ gᵐ verſus.a.ꝗ ſicut pũ-
cta ſunt ꝓpingora ipſi.a. ita illis gradus remiſſiores lũis
acqrentꝛ.ꝯña pꝫ:qꝛ q̃ncũqꝫ eſt aliqð vni' diffor' ad nõ gᵐ
terminatũ:ſicut puncta ſunt illi extremo vbi terminatꝛ ad
nõ gᵐ ꝓpingora:ita eis gradus remiſſiores correſpõdent. Et
ex ꝯñte ſeqꝛ ꝙ ſicẽ pũcta ſũt extreᵒ imediato.a. ꝓpingora:
ita ad illa tardior erit intẽſio lũis: ſicut.n.latitudo acqſita
eſt minor:ita intẽſio erit tardior. Et ꝯſilr oĩo ſicut arguitꝛ
de intẽſione lumis qñ lumioſuꝫ maioratꝛ:ita eſt arguẽduꝫ
de remiſſione lumis qñ lumioſuꝫ minoratꝛ:ꝙ.ſ. ſicẽ puncta
ſunt extremo imediato agẽti ꝓpingora:ſic ad iſta tardior
erit remiſſio lũis.pꝫ ꝗ pᵃ iſtaꝝ ꝯnuꝫ. ¶ Pro 2ᵃ ſic ar'. Sit
a.lumioſuꝫ vt prius ꝛ nõ varietꝛ.a.ꝛ ſit.b.meᵐ illud vnifor'
qð rareſiat manẽs vnifor':tũc ad oẽm punctũ intrinſecuꝫ
intẽdatꝛ lumẽ:ꝛ nullũ lumẽ acqretꝛ extreᵒ imediato agẽti:
ꝛ illud lumen eſt vni' difforme ꝛ ꝯtinue manebit vnifor'
diffor':ꝗ laᵗᵒ lũis acqſita ad nõ gᵐ terminata ꝯti' erit vni'
difformis terminata ad nõ gᵐ v'ſus.a. ꝗ ſicut pũcta ſunt ꝓ-
pingora.a.ita ad illa minor laᵗᵒ lũis acqretꝛ: ꝛ ꝑ ꝯñs in ea
ꝓporᵉ tardiꝰ intẽdetꝛ lumẽ ad puncta ꝓpingora agẽti ꝙ̃
ad remotiora:ꝛ ſic ar' de intẽſione lũis qñ meᵐ rareſit:ita
arguẽduꝫ eſt de remiſſione qñ meᵐ ꝯdẽſatꝛ.ꝗ ſequitꝛ ꝯclo.
¶ Tertia ſic ar'. Sit.a.illud lũioſuꝫ qð intẽdatꝛ in gradu
agẽs in.b.meᵐ vnifor' nõ variatũ: ꝛ arg' ſic ꝓpor' ſic.a.
fiet itẽſiꝰ:ita fiet maioris poᵉ: ꝛ ſicẽ fiet maioris potẽtie:ita
aget ꝑ maiorẽ diſtãtiã. Et ꝓpor' ſic.a.fiet intẽſius: ita laᵗᵒ
inter ipm ꝛ nõ gᵐ erit maior:ꝗ ꝓpor' ſicẽ aget per maioreꝫ
diſtantiã ſic laᵗᵒ acta terminata ad nõ gᵐ erit maior:ergo in
ꝑte ꝑ quã nũc eſt actio ꝯti' eq̃lis latitudo extẽdetꝛ loquẽdo
de eq̃litate latitudinũ qñ extreᵃ intẽſiora eq̃lr excedũt ex-
trema remiſſiora.ꝯña ſatis pꝫ:vt ſi latitudo acta foret duᵉ
e diſtãtia ẽt ꝑ quã agitꝛ foret duᵉ in ꝑte prehabita maneret
eq̃lis latitudo.ſ.medietas totiꝰ latiᵗᵘᵈ q̃ tũc eẽt hĩta: ꝛ arg'
ex ꝯñte in ꝑte ꝑ quã eſt actio manebit ꝯti' eq̃lis latitudo:
ꝗ ad extreᵐ illiꝰ ꝑtis eq̃lis latitudo acqretꝛ:ꝗ ad extreᵐ illiꝰ
ꝑtis erit eq̃lis intẽſio:ꝛ per ꝯñs ad oĩa alia pũcta intriſeca
manebit eq̃lis intẽſio lũis:qꝛ nũq̃ vnifor' diffor' manebit
vni' diffor' eq̃li latiᵗᵘᵈ:niſi intendatꝛ vnõ gᵘ vniformi vt ꝓ-
batꝛ in ꝯne 3ᵃ ꝛ alijs ſequẽtibꝰ de iductiõe gᵘ ſummi: ſicut
argutũ eſt de ꝑte ꝑ quã eſt actio:ꝛ ita de oĩ ꝑte ẽ arguẽdũ.
¶ Per has facil'r ꝓbatꝛ quõ caſus eſt ipoſſis poſitꝰ ꝯ 14ᵉ
ꝯneꝫ de.d.ꝛ poſſis de.a.qꝛ ꝑ rarefactiõeꝫ.c. in caſu iſto ſm
medietatẽ ꝓpingorẽ.a.ſi.a. ſtaret ad oẽꝫ pũctũ intẽderetꝛ
lumẽ vltra meᵐ punctũ ſicẽ ad pũct.. meᵐ. Et ſi.a.remitte-
retꝛ ſtãte iſto meᵒ ad oẽꝫ punctũ vltra mediũ eque' remit-
teretꝛ lumẽ ſicẽ ad meᵐ:ſicut.n.fieret remiſſiꝰ:ita pꝫ ꝑ quaꝫ
ageret vltra meᵐ fieret minor ꝑ ꝓbationẽ ꝯſileꝫ ꝓbatiõi
ꝯnis.18.ꝗ ſi fiat rarefactio in medietate.c. ꝓpingori.a.ꝛ re
miſſio lũis.a.ita ꝙ ad pũctũ meᵐ.c.nõ remittatꝛ lumẽ nec
intẽdatꝛ ad nullũ pũctũ vltra meᵐ intẽdetꝛ nec remittetur
lumẽ:ideo de.a.eſt caſus poſſis:de.d.tñ nõ eſt poſſis: qꝛ ad
pũcta vltra meᵐ.c.ꝑ minoratiõeꝫ q̃titatis.d.minorarctur
velociꝰ lumẽ ꝙ̃ ad pũctũ meᵐ iuxta ꝯneꝫ 16ᵃᵐ.ꝛ ꝑ rarefa
ctionẽ medij ad oẽm punctũ vltra punctũ meᵐ.c.eque'
intẽdetꝛ lumẽ ſicut ad meᵐ punctũ ꝑ ꝯneꝫ 13ᵃᵐ. Si ꝗ ꝑ mi
norationẽ.d.ꝛ rarefactionẽ medietatis.c. ꝓpingoris.d.ad
punctũ.c.meᵐ ſtabit ideꝫ gᵘ:ꝛ ad oẽm pũctũ vltra mediũ
remitteretꝛ lumẽ:ꝛ iõ nõ ſtat ꝙ ad oẽm punctũ.c.idem gᵘ
lũis ꝯſeruetꝛ:ſꝫ illud ſtat de oĩ pũcto citra meᵐ:imo ſequitꝛ
ꝙ ad oẽꝫ pũctũ citra idẽ ꝗdus lũis ꝯſeruabitꝛ cũ caſu po-
ſito. Si.n.ad punctũ meᵐ ideꝫ gradus lũis ꝯſeruabitꝛ:igitꝛ
nõ rarefacto medio per minorationẽ luminoſi eque' decre-
detꝛ lumẽ ad punctũ mediũ ſicut acqreretꝛ rarefacto me-
dio ſtante lumioſo.ꝯña ſatis tenet:qꝛ tantũ faciet minora-
tio luminoſi ad remiſſioneꝫ lũis ſicut rarefactio medij ad
lumis intenſionẽ. Sed ꝓpor' ſicut pũcta ſunt extremo ꝓ-
pinquiora:qð extremũ eſt imediatũ agenti:ita minꝰ faciet
rarefactio ad intenſionẽ lumis:ꝛ etiã ita faciet minoratio
quãtitatis minꝰ ad lumis remiſſionẽ:ergo ſicut ad punctũ
mediuꝫ equal'r faciet rarefactio medij ꝛ minoratio lumi-
noſi:ita ad oĩa puncta citra mediuꝫ equal'r faciet. Añs pꝫ
per.16.ꝛ.18.ꝯcl'ones.ꝛ ex ꝯñte ſequitꝛ ꝙ ad oẽꝫ punctũ ci-
tra mediũ ideꝫ gradus lumis ꝯſeruabitꝛ. ¶ Seqꝛ ex pre- 19ª ꝯ
miſſis iſta ꝯclo ꝙ vbicũqꝫ luminoſum agit in mediũ vni-
forme cuiꝰ vna pars rareſit imediata agẽti ꝛ tota pars re-
ſidua manet ꝛ luminoſum minoratꝛ in quãtitate: ita ꝙ ad
extremũ ꝑtis rarefacte ideꝫ gradus lumis ꝯſeruabitur ad
oẽm punctũ citra taleꝫ ꝯtinue ideꝫ gradus lumis ꝯſerua-
bitꝛ ꝛ ad oẽm punctũ vltra illuꝫ punctũ remittetꝛ lumẽ ce
teris paribꝰ. Hec ſequitꝛ:quia illa rarefactio equal'r faciet
ad intenſionẽ lumis ad extremũ iſtius ꝑtis rarefacte ꝛ ad
oẽm punctũ vltra:ꝛ ad puncta remotiora plus faciet mi-
noratio quãtitatis luminoſi ꝙ̃ ad ꝓpinquiora: ꝗ ad pũcta
remotiora remittetꝛ lumen ꝛ ad oẽm citra ſtabit lumẽ vt
argutũ eſt in rõne ꝓxima:ergo ſequitꝛ ꝯclo. ¶ Sequitꝛ ẽt 20ª ꝯ
ꝙ ſi luminoſuꝫ agat in mediũ vniforme cuiꝰ vna pars ra-
reſit ꝛ luminoſuꝫ remittitꝛ:ita ꝙ ad extremũ illius partis
cõſeruetꝛ ideꝫ gradus lumis ipſo luminoſo ſtante in q̃tita
te ad quecũqꝫ pũcta vltra illud ꝯſeruabitꝛ ideꝫ gradus ſicẽ
in ꝑiᵒ eſt ad illa ꝛ ad oĩa puncta citra remittetꝛ lumẽ. Hec
ſic pꝫ. Terminet.b.punctꝰ ꝑtẽ rarefactã in extremo remo
tiori ab.a.ꝛ remittatꝛ.a.luminoſuꝫ:ita ꝙ ad.b.ꝯſeruetꝛ idẽ
gradus lumis: ꝗ tunc iſta rarefactio ad intenſionẽ lumis
equal'r faceret ad.b.pũctũ ꝛ ad oẽm vlteriorẽ ſtãte lumi-
noſo:ꝛ remiſſio luminoſi:ita ad oẽm punctũ vltra eq̃l'r fa-
ceret ſicẽ ad pũctũ taleꝫ.ſ.mediũ ad remiſſionẽ lumis me-
dio nõ rarefacto:ꝗ ſicut ad.b.pũctũ eq̃l'r faciũt rarefactio
medij ꝛ remiſſio luminoſi ita ad oẽm punctũ vltra.b. eq̃-
liter faciũt. Et per ꝯñs ſicut ad.b.ideꝫ gradus lũis ꝯſerua-
bitꝛ:ita ad oẽm vltra ꝯſeruabitꝛ ideꝫ ꝗdus. Añs pꝫ per.17.
ꝛ.18.ꝯnes.pꝫ ergo pᵃ pars 2ᵉ ſic ar'. ſicut puncta ſunt ꝓpin
quiora luminoſo:ita ad intenſionẽ luminis minus faceret

rarefactio ad iſta puncta ꝙ̃ ad.b.punctū:ꝛ remiſſio lumi
noſi ad oīa puncta eq̄l'r faciet ad remiſſionē lumis:ḡ cum
ad.b.punctū eq̄l'r faciūt remiſſio luis ꝛ rarefactio medij:
ſeqꝫ ꝙ ad oēm punctū citra.b.plus faciet remiſſio lumi
noſi ad remiſſionē luis ꝙ̃ medij rarefactio faciet ad inten
ſionē lumis:igiꝫ ad oēm punctū citra.b. remittet lumen.
21° ꝯ ¶ Si ēt pars.b.medij ꝯdenſeꝫ ime^{ta} agēti: ꝛ luminoſum
ita maioreꝫ:q̄d ad extremū remoti' illi' pt̄is ꝯdēſate idē
gradus luis ꝯſeruabiꝫ ad oēm punctū vltra id extremū
intēdeꝫ gradus lumis ꝛ ad oēꝫ citra ꝯſeruabiꝫ lumē:ſi ēt
ps medij ꝯdēſeꝫ ime^{te} agēte ſtāte pte reſidua ꝛ lumioſū
intēdaꝫ:ita ꝙ ad extremū iſti' pt̄is idē g° luis ꝯſeruabiꝫ
ad oēꝫ pūctū vlt° ēt ꝯſeruabiꝫ idē g°:ꝛ ad oēꝫ pūctū citra
22° ꝯ intēdeꝫ lumē iſte pbanꝫ vt ꝓ̇xīe.¶ Si lumioſū agēs in
me^{m} vniforme intēdaꝫ in luie ꝛ minoreꝫ in q̄ntitate:ita ꝙ
ꝯtinue agat per eq̄leꝫ diſtātiā nō variato me° ſicut pūcta
ſunt ꝓpingora extremo medij vbi eſt nō g°:ita ad iſta tar
dius intēdeꝫ lumē ꝙ̃ ad remotiora:ꝛ ſi remittaꝫ in lumie
ꝛ maioreꝫ in q̄ntitate ita ꝙ ꝯti^{e} agat per eq̄leꝫ diſtātiā ſic
pūcta ſunt ꝓpingora extre^{o} medij vbi eſt nō g°:ita ad illa
tardi' remitteꝫ lumē ꝙ̃ ad pūcta remotiora. Dec pꝫ ꝑ pro
p̄° pte:q2 ad extre^{m} vbi nūc eſt nō gradus ꝯti^{e} erit nō gra
dus:q2 ibi nullū lumē acq̄riꝫ ex q̄ lumioſū ſolū aget vſq3
ad iſtū punctū ꝛ ad punctū ſibi imediatū intendeꝫ lumen
ex quo lumioſū intēdeꝫ ſemꝑ agēs totā latitudinē ad g^{m}
ſuū terminatā ꝛ lumē nūc eſt vni' difforme ꝛ ſemꝑ erit:ḡ
lumē acq̄ſitū erit vni' diffor^{e} ad nō g^{m} terminatū v'ſus ex
tremū remoti' a luioſo:ḡ ſicut pūcta ſunt illi extre° ꝓpin
quiora:ita ad iſta minor latitudo luis acq̄reꝫ:ꝛ per ꝯn̄s in
ea ꝓpor^{ne} ad iſta tardior erit intēſio luis. Seqꝫ ḡ iſta pꝫ ꝛ
ſcd̄a pbaꝫ ꝯſil'i mō per oīa:q2 lumē nunc habitū eſt vni'
diffor^{e} ad nō g^{m} termiatū ꝛ ꝯtinue erit:igiꝫ lumē deꝑditū
erit vni' difforme ad nō g^{m} termiatū verſus extremū re
moti' a luioſo:ḡ ſicut pūcta ſunt illi extremo ꝓpinquiora:
ita ad iſta mior latitudo luis deperdeꝫ:ꝛ per ꝯn̄s in ea ꝓ
23° ꝯ portione ad iſta tardior erit remiſſio luis.¶ Si lumioſū
intēdaꝫ in g^{u} ꝛ maioreꝫ in q̄ntitate agēs in me^{m} vniforme
nō variatū ad pūcta remotiora veloci' intēdeꝫ lumen ꝙ̃
ad ꝓpingora lumioſo:ꝛ ſi minoreꝫ q̄ntitatiue ꝛ remittatur
in luie ad puncta remotiora veloci' remitteꝫ lumen ꝙ̃ ad
ꝓpingora:ſꝫ nō in ea ꝓportiōe veloci' in qua plus diſtat
a luminoſo. Sed ꝓpor' ſicut pūcta ab extremo imediato
luminoſi plus alijs diſtant:ſic velocitas intēſionis vel re
miſſionis lumis ad puncta iſta magis diſtātia ꝑ plus exce
det velocitatē intēſionis lumis ad extremū imediatū agē
ti ꝙ̃ velocitas intēſionis vel remiſſionis ad puncta ꝓpin
quiora excedit velocitatē ad idē extremū. Dec pro oī pte
declaraꝫ:q2 rōne intēſionis lumis illud lumioſū ad oēm
punctū eque' intēdet lumē ſicut ad aliquē:ꝛ rōne maio
ratiōis q̄ntitatis veloci' intēdet lumē in pte remota ꝙ̃ ꝓ
pinqua:ḡ per intēſionē lumioſi ꝛ maiorationē veloci' in
tendiꝫ lumen in pte remota a luminoſo ꝙ̃ in ꝓpinq̄.ꝛ ſil'r
eſt ſi minoreꝫ ꝛ remittaꝫ:q2 veloci' remitteꝫ in pte remo
ta ꝙ̃ in ꝓpinq̄.pꝫ ḡ ꝑ° pꝫ. Sed nō in ea ꝓportiōe veloci':
q2 tunc ad aliquē punctū diſtātē aliqual'r velo' intēdereꝫ
vel remittereꝫ lumē ꝛ in duplo tardius ad aliquē:ꝛ ſic in
infi^{m}:ex quo aliq̄s punct' aliq̄l'r diſtat a luminoſo:ꝛ in du
mi' aliq̄s:ꝛ ſic deinceps. ſed ꝯn̄s eſt fl'ſꝫ:q2 ad oēm pūctū
intriſecū veloci' intēdeꝫ lumē ꝙ̃ ad punctū extrinſecum
imediatū agēti:q2 ſi luminoſū nō augmētareꝫ ſed ſolum
intēdereꝫ:ad oēm punctū intrinſecū eque' ꝓ̇cīſe inten
dereꝫ lumē ſicut ad extremū illud:ſed per maiorationeꝫ
ad oēm punctū intrinſecū intēdiꝫ lumē:ꝛ nō ad extremū:
ḡ ad oēm punctū intrinſecū veloci' intendeꝫ lumen ꝙ̃ ad
punctū imediatū lumioſo:ḡ nō in ea ꝓportiōe veloci' ꝛc.

Ultima etiā ꝑticula pbaꝫ ſic:totū manebit ꝯti^{e} vnifor'
difforme illuminatū ꝛ intēdeꝫ veloci' in parte remota ꝙ̃
ꝓpinqua:ḡ intendeꝫ mediāte latitudine vnifor' difformī
terminata in extremo remiſſiori ad extremū imediatū lu
minoſo:ḡ ſicut pūcta plus ab iſto puncto diſtant ſic ꝑ plus
velocitas ad punctū magis diſtantē excedit velocitatē ad
extremū imediatū agēti ꝙ̃ velocitas ad punctū minus di
ſtantē ꝛc. ſequiꝫ ḡ ꝯclō.¶ Si luminoſū agēs in mediū 24° ꝯ
vnifor^{e} remittaꝫ in gradu ꝛ maioreꝫ in q̄ntitate velocius
ꝓpor':ita ꝙ ſufficiat agere per maiorē diſtantiā ꝛ maiorē:
aliqua eſt pꝫ in qua icipit lumē remitti:ꝛ aliq̄ eſt certa pꝫ
in qua icipit intēdi:ꝛ per tātū tp̄s pōt durare hꝫ remiſſio
luioſi ꝙ ad aliquē punctū ꝑ̇us intēdeꝫ lumen ꝛ poſtea re
mitteꝫ. Agat.n.a.luioſū in.b.me^{m} vnifor^{e} ꝛ remittaꝫ.a.in
gradu:ſed veloci' ꝓportiōabil'r maioreꝫ in q̄ntitate:ita ꝙ
ſufficiat agere per maiorē diſtātiā ꝙ̃ ꝑ̇us:ꝛ capiaꝫ extre^{m}
vbi nūc eſt nō gradus luis:ꝛ ſeqꝫ ex quo ſufficiet continue
agere per maiorē diſtātiā ꝛ maiorē ꝙ vbi nūc eſt nō gra
dus ꝯtinue poſt hoc erit aliq̄s gradus luis: ꝛ tota latitudo
erit vnifor' difformis ad illū punctū in ꝑ̇ri° ad nō gradū
terminata:ḡ nūc icipit in aliq̄ pte lumē intēdi. Et ꝙ ſit da
re aliquā ptē in qua lumē icipit remitti:ſic pbaꝫ. aliq̄ eſt
velocitas qua lumē icipit remitti ad extremū imediatū.a.
ꝛ per totū tanta velocitate remittereꝫ lumē ſi.a.nō maio
rareꝫ in q̄ntitate:ꝛ per maiorationē q̄ntitatis ſtāte lumioſo
in gradu intēdereꝫ lumē latitudine termiata ad extremū
imediatū.a.ad nō g^{m}:erit ḡ dare certā partē terminatā ad
a.ad cui' quēlꝫ punctū icipiet lumē tardi' intēdi ꝑ maio
rationē.a.ꝙ̃ incipet remitti per minorationē luis.a.ꝛ per
ꝯn̄s cū illa remiſſione ꝛ maioratiōe.a. per certā ptē icipit
lumē remitti.ſ.per totā ptē terminatā ad punctū ad quē
cū iſta maioratiōe q̄ntitatis deducta remiſſione.a.incipet
lumē eque' intēdi ſicut incipet ad eundē pūctū remitti
nō maiorato luioſo ꝛ ipſo remiſſo in g̃du. ḡ pꝫ ꝑ° pꝫ ꝯn̄is.
Et alia pꝫ ſic ar'. Deꝫ punct' aliq̄s vbi nūc lumē icipit in
tendi ꝛ deꝫ gradus lumis qui erit ad illū pro aliq̄ inſtāti
tp̄is in quo lumē ad idē intēdeꝫ qui ſit.c.tūc per tātū tp̄s
pōt eē remiſſio ꝙ.a.aliq̄n erit ſub g̃du remiſſiori ꝙ̃ eſt.c.
ꝛ ſi.a.fuerit ſub g° remiſſiori ꝙ̃ eſt.c.ad nullū punctū aget
tantū g^{m} ſicut eſt.c.q2 nō aget g^{m} intenſiorē g^{u} ſuo:ḡ ſic pōt
a.remitti ꝙ illi pūcto cui ꝑ̇mo.c.g̃dus corrn̄debat poſtea
eidē gradus remiſſior corrn̄deat ꝙ̃ eſt.c. ḡ ad talē pun
ctū aliq̄n erit remiſſio luis ꝛ ꝑ̇us ad illū erat intenſio per
poſitū:ḡ ſeqꝫ ꝯclō.¶ Sil'r vbicūq3 luminoſū intēdiꝫ in
gradu agēs in mediū vnifor^{e} ꝛ minoraꝫ in quātitate:ita ꝙ
ſua po^{a} minoreꝫ ad aliquē punctū icipit lumē intēdi ꝛ ad
aliquē remitti. Agat.n.a luminoſū in.b. mediū vniforme
ꝛ intēdaꝫ.a.in gradu ꝛ minoreꝫ in q̄ntitate:ita ꝙ agat ꝯti^{e}
per minorē diſtātiā ꝛ minorē:nūc ſeqꝫ ꝙ ime^{te} poſt h̄ erit
nō gradus lumis vbi nūc eſt g° lumis: ḡ nūc icipit lumen
remitti in aliq̄ pte ꝛ icipit in alia intēdi:q2 per minoratio
nem q̄ntitatis ſtante gradu remitteꝫ lumē latitudīe termi
nata ad nō g^{m} verſus.a.per.16.ꝛ.18. ꝯnes ad oēm punctū
per intēſionē.a.ſtāte q̄ntitate eque' intēdereꝫ lumē ſicut ad
aliquē:ḡ per certā partē veloci' intēdereꝫ lumē per inten
ſionē.a.ꝙ̃ remittereꝫ ꝑ minorationē eiuſdē:ḡ per totā iſtā
ptē intēdeꝫ lumē. Uel ſic.ad extremū imediatū ipſi.a.in
tendeꝫ lumē:ḡ necio ad aliquē punctū intrinſecū intēdeꝫ
lumē:q2 ipoīe eſt ꝙ in iſto medio intēdereꝫ lumē ꝛ ſolū
ſm ſupficiē vel pūctū.¶ Uerūtn̄ ſi luioſū agens in me^{m}
vniforme nō variatū intēdatur in g^{u} ꝛ mioreꝫ in q̄ntitate:
ita tn̄ ꝙ in po^{a} maioreꝫ ꝛ cōtinue agat per maiorē diſtan
tiā ꝛ maiorē ad oēm punctū ꝯti^{e} intēdeꝫ lumē: q2 tūc lati
tudo ꝯtinue erit maior ꝛ maior:ꝛ ꝯtinue erit per maiorē ꝛ
maiorē diſtantiā acta:ḡ ad oēm punctū erit lumē intēſiua

⁊ intēſius.ꝯña pꝫ.Si.n.quieſcēte extremo intēſiori latitu-
dinis aliqͥs gradus ꝓgrederet̄ ad extremū:⁊ quilꝫ ḡdus
intrinſecꝰ:tūc quilꝫ gradus recederet ab extremo vbi eſt
extremū intēſius illiꝰ latitudīs: ⁊ per ꝯñs ad oēm punctū
intēderet̄ lumē:ḡ a multo fortiori cū iſta latitudo cōtinue
terminabit̄ in extremo intēſiori ad gᵐ intēſiorē ⁊ aget per
maiorē diſtantiā ⁊ maiorē:ſeqͥt̄ ꝙ ꝯtinue intendet̄ lumen
3 16ᵐ ad oēm punctū.¶ Cōtra ꝯneꝫ 16ᵐ obijcit̄ ſic.Creſcat.a.
ꝯnem luminoſuꝫ a nō q̄nto vniforꝰ quouſqꝫ ſufficiat agere ꝑ meᵐ
vniꝰ ⁊ maneat ꝯtinue.a.vniforme eodeꝫ gᵘ: ⁊ nō variet̄.b,
meᵐ in raritate vel denſitate:tūc poᵃ.a.creſcet vniforꝰ a nō
quāto:ſiue a nō gradu:q꞉ creſcet eque ꝓportionabilr̄ cum
quātitate.a.ḡ vniforꝰ maiorabit̄ diſtātia per quā ſufficiet
agere:ḡ in inſtāti medio ſufficiet agere ꝑ medietatē.b.⁊ in
fine triū quartaꝝ totiꝰ tꝑis ſufficiet agere per tres q̄rtas:⁊
ſoluꝫ ꝑ tꝑs per qḋ ſufficiet agere ad punctū aliquē intēdet̄
lumē ad eundeꝫ vt pꝫ:ḡ ſoluꝫ ꝑ ſcḋaꝫ medietatē totiꝰ tꝑis
intēdet̄ lumē ad punctū meᵐ:⁊ per in duᵒ minꝰ tꝑs inten-
det̄ lumē ad punctū terminātēꝫ tres quartas.b.q̄ȝ ad pun
ctū mediū:⁊ in duᵒ minor latitudo ꝑciſe agret̄ pūcto ter-
minātī tres quartas.b.q̄ȝ puncto medio:ḡ equeueꝰ preciſe
intēdet̄ lumē ad punctū terminātēꝫ tres quartas ſicut ad
punctū mediū ⁊ nō velociꝰ.ꝯña appet: q꞉ mediāte equali
velocitate preciſe pōt lumē vel alia latitudo ſubduᵒ agri
in tꝑe ſubduplo ſic̄ dupla in tꝑe duᵒ. Et aīs pꝫ: q꞉ in fine
erit.b.mediū vniforꝰ difforme terminatuꝫ ad nō gᵐ: ḡ ad
punctū mediū tūc erit in duplo intēſior gᵘ q̄ȝ ad gᵐ termi-
nantē tres quartas ⁊ nō a gradu intēdet̄ lumē ad vtrūqꝫ
Rñō punctū vt pꝫ manifeſte.ḡ ꝯña eſt fl'a.¶ Pro iſto di cōce-
dendo ꝯneꝫ:⁊ ad arguᵐ in oppoᵐ admittat̄ caſus ⁊ diſtin-
guat̄ hec ꝓpō equeueꝰ intēdet̄ ad punctū mediū ſicut ad
pūctū terminātem tertiā quartā: q꞉ pōt ſigͥre ꝙ ſimul ad
iſta duo pūcta equeueꝰ lumē intēderet̄:⁊ id eſt falſuꝫ:⁊ ſic
nō valet iſta ꝯña qñ ꝯcludit̄ iſta ꝓpō in iſto mō. Nā iſto
mō verificat̄ ꝯclō.ſ. ꝙ qñ ſimul lumē intēdit̄ lumen per
maiorationē quātitatis ad punctū ꝓpinquiorē ⁊ ad pūctū
remotiorē velociꝰ intēdit̄ lumē ad punctū magis diſtātēꝫ
q̄ȝ ad punctū minus diſtātēꝫ:⁊ illud eſt veꝝ. Sed alio mō
pōt itelligi ꝙ tota intēſio ad mediū punctū cathegorema-
tice eſt eq̄lis toti intēſioni cathegoᶜᵉ ad punctuꝫ terminā-
tem tertiā quartā.⁊ tūc eſt iſta ꝓpō vera ⁊ ꝯña bona ꝯclu-
dens iſtā ꝓpōneꝫ.Iſta tn̄ ꝓpō ſic itellecta nō eſt ꝯ ꝯneꝫ.
25ᵃ ꝯ ¶ Unde pro iſto eſt notāduꝫ ꝙ vbi luminoſum agens in
meᵐ vniforme nō variatū maioret̄ vniforꝰ in q̄ntitate: ita
ꝙ ſua poᵃ vniforꝰ maioret̄ ad oēm punctū tardiꝰ ⁊ tardiꝰ
intēdet̄ lumen:q꞉ ſi nō ſit.a.id luminoſuꝫ ⁊.b.id meᵐ vni-
forme:⁊ ſit.c.vnus punctꝰ:⁊ ꝓbat̄ ꝙ ad.c. punctū tardius
⁊ tardius intēdet̄ lumen:q꞉ exquo poᵃ vniforꝰ maiorabit̄
diſtātia per quā erit actio vniforꝰ maiorabit̄:⁊ per ꝯñs ex-
tremū remiſſiꝰ illiꝰ latitudis lumis acti vniforꝰ mouebit̄
⁊ quilꝫ alius gradus ſilr̄:exquo tota cōtinue manebit vniꝰ
difformis:det̄ ḡ inſtās aliqḋ in quo ad.c.pūctū ꝑmo deue-
niet lumē vel actio:tūc erit ibi extremuꝫ remiſſiꝰ illiꝰ lati-
tudinis certeuelocꝰ mouēs ⁊ velociꝰ q̄ȝ vnq̄ȝ poſt mouebit̄
gradus aliqͥs eideꝫ puncto corrñdens: ⁊ latitudo ēt lumis
citra punctū.c.erit maior extēſiue q̄ȝ vnq̄ȝ poſt hoc erit la-
titudo ad ideꝫ punctū terminata:ḡ velociꝰ tūc intēdet̄ lu-
men vel incipiet intēdi ad.c.punctū q̄ȝ vnq̄ȝ poſt: ⁊ ſic pro
oī inſtāti ꝑori velociꝰ q̄ȝ pro poſteriori. ꝯña pꝫ ſic. ſi eſſent
due latitudines eq̄les per eq̄lia ſubiecta extēſe: quarū ex-
trema remotiora mouerent̄: ita ꝙ cuilꝫ pūcto vtriuſqꝫ gᵘ
intēſior corrñdeat q̄ȝ in pñᵒ:⁊ extremū vniꝰ velociꝰ moue-
ret̄ extremo alteriꝰ manētibus latitudinibꝰ vniforꝰ diffor-
mibꝰ:ad oēm pūctū iſtiꝰ in quo latitudo moueret̄ velociꝰ
velocior erit intenſio q̄ȝ ad punctū corrñdentē alterius vt
notū eſt:eo ꝙ in iſto velocius accedunt gradus intēſiores
verſus pūcta ſua q̄ȝ in alio. Sed ſi latitudo maior exten-
ſiue maneret per eq̄le ſubm̄ extēſa ſicut minor ⁊ equeueꝰ
moueret̄ quieſcēte extremo intēſiori cū ſubo ſuo velocior
erit intēſio q̄ȝ in alio in quo latitudo minor ꝓgredit̄ vt pꝫ:
q꞉ gradus equediſtātes intēſiue in maiori latitudie ſūt ꝓ-
pinquiores extremo ⁊ alijs pūctis: eo ꝙ in oī pte ſubiecti
in qua maior latiᵗᵒ extēdit̄ maior eſt latitudo q̄ȝ in parte
eq̄li alteriꝰ: ḡ ex bis a fortiori ſeqͥt̄ ꝙ qñ eſt maior latitu-
do velociꝰ mouēs q̄ȝ minor:⁊ per ideꝫ ſubm̄ velociꝰ inten-
dit̄ q̄litas in iſto q̄ȝ vbi latitudo eſt minor: ſeqͥt̄ ḡ ꝙ ad.c.
pūctū pro oī inſtāti poſteriori tardiꝰ intēdet̄ lumē q̄ȝ pro
priori:⁊ ita de oī alio pūcto eſt arguēduꝫ.ḡ ſequit̄ ꝯcluſio.
¶ Contra 18ᵐ ꝯneꝫ argꝰ deducēdo ad iſtā ꝯneꝫ ꝙ aliqḋ ꝯ 19ᵐ
eſt vniforme per totū qḋ remittet̄ vnico gᵘ vniformi:⁊ tū ꝯnem
cōtinue poſt hoc erit vniforꝰ difforᵉ. Sed hec ꝯclō eſt fl'a:
q꞉ ſi nūc ſit vniforᵉ ⁊ per totuꝫ remitteret̄ vno gradu vni-
formi:ſeqͥt̄ ꝙ eq̄lis latitudo vbiqꝫ deꝑdet̄.nō.n.erit ma-
ior rō quare ad vnū punctū erit lumē remiſſius q̄ȝ ad ali-
quē:gͥn eadeꝫ rōne ad illuꝫ erit remiſſiᵘ lumē q̄ȝ ad aliquē
qḋ eſt ipoſe.¶ Et ꝙ iſta ꝯclō ſequat̄ arꝰ ſic. Det̄ lumino-
ſuꝫ vniforme īfinite intēſuꝫ per totū qḋ ſit.a.⁊ agat per.b,
meᵐ vniforꝰ:tūc.b.meᵐ eſt vniforꝰ illuminatū: q꞉ vndiqꝫ
eſt lumē infinite intēſuꝫ.q꞉ ſi nō:ſit.c.punctꝰ vbi nō eſt lu-
men īfiᵐ: ꝯ ꝯtingit dare luminoſuꝫ finite intēſuꝫ qḋ ſuffi-
cit agere oēm gᵐ intēſiorē q̄ȝ eſt iſte gͣdūqꝫ det̄ ⁊ ad maio-
rem diſtātiā q̄ȝ ſit diſtātia que eſt īter extremū.b. īmedia-
tuꝫ.a.⁊.c.punctū vt notuꝫ eſt: q꞉ quiſcūqꝫ gradus det̄ ille
ab aliquo poſſet agi per aliquam diſtantiam ⁊ ab aliquo
alio per in duplo maiorē diſtātiā:⁊ ſic in infiᵐ vt pꝫ. Sed
iſtud luminoſuꝫ eſt maioris poꝰ q̄ȝ aliqḋ finite quātitatis ⁊
finite intēſuꝫ:ḡ.a.per maiorē diſtātiā q̄ȝ eſt īter extremuꝫ
b.⁊.c.punctū ſufficit agere gᵐ quē ponit̄ ipſuꝫ agere ad.c.
pūctū.ſeqͥt̄ ḡ ꝙ lumē ſuū eſt vniforᵉ:ita ꝙ.b. meᵐ eſt vniꝰ
illuminatū.remittat̄ ḡ.a.luminoſuꝫ per totū: ita ꝙ maneat
vniforme ⁊ agat ꝯtinue in.b.meᵐ vniforᵉ: tūc exquo.a.cō-
tinue poſt hoc erit ſoluꝫ finite poᵉ:q꞉ q̄ntitatiſ ⁊ intēſionis fi-
nite:ḡ lumē actū ab eo in.b.erit vniforꝰ difforme ſicut po-
nit ꝯclō 12ᵃ.⁊ per ꝯneꝫ 18ᵐ id lumē ꝯtinue remittet̄ vno
gradu vniformi:ḡ ſeqͥt̄ ꝯ.Ideo ſeqͥt̄ illa ꝯclō:nec eſt incō-
ueniens vbi totū eſt vniforme gᵘ infinito: q꞉ lꝫ īfinita lati-
tudo ad duo puncta deꝑderet̄:ſtat tn̄ vnū eſſe quātūcūqꝫ
intēſuꝫ volueris ⁊ aliud remiſſum.Exquo īfinita latitudo
infinities īfinitā latitudinē ꝯtinet:iō lꝫ vtrūqꝫ per infinitū
ꝯtinue diſtabit ab infinito gradu:quoꝝ vtrūqꝫ remittetur
equeꝰ cū alio ſtat vnū in quacūqꝫ ꝓportiōe volueris ma-
nere alio intēſius ſicut ſic:ſit.a.in duplo intēſius.b.⁊ inten-
dat̄ equeueꝰ in īfiᵐ:⁊ ſeqͥt̄ ꝙ.a.ꝯtiꝰ citra finē erit intēſiꝰ.b.
ergo ēt in via remiſſionis ſi vtrūqꝫ remitteret̄ ꝯſilr̄ ſicut
intēdebat̄ eēt.a.ꝯtinue intēſius.b.Aīs pꝫ: q꞉.a.nūc eſt in-
tenſius.b.ſ.in pñᵒ intēſionis ⁊ equeueꝰ ꝯtiᵉ intēdet̄ cum.b.
ergo.a.ꝯtinue erit intēſius.b. ⁊ ſic nō eſt incōueniens vbi
incipiūt remitti a gradu īfinito.Si tn̄ forent ſub eodeꝫ gᵘ
finito ⁊ equeueꝰ remitterent̄ ꝯtinue ipſa ꝯtinue equalr̄ di
ſtarent a gᵘ illo ⁊ per finitū ſolum: ḡ iſta ſemꝑ eſſent ſub
eodeꝫ gradu:⁊ ſic nō ꝓcedit argᵐ. ¶ Pro quo ponuntur
quedaꝫ rᵉ tenentes in oī mā:quaꝝ pᵃ eſt hec. ¶ Non ſunt pᵃ regᵃ
aliqui gradus lumis:motꝰ ſeu q̄litatis:vel cuiuſcūqꝫ alte-
rius latitudis:gͥn equali velocitate in eodeꝫ tꝑe ad illos a
gradu infinito poſſit fieri remiſſio. ¶ Scḋa ſi a gᵘ īfinito 2ᵃ regᵃ
remittant̄ aliq̄:quoꝝ vnū alio ꝯtinue in certa ꝓporᵉ ve-
locius remittat̄ vel in ꝓporᵉ maiori certa ꝓportiōe data
qḋcūqꝫ fuerit illud per magnū tꝑs manebit intenſius qḋ
velocius remittet̄.¶ Prima pꝫ:q꞉ nō ſunt aliqui gradus
inequē intēſi in aliqua latitudine gͥn ſi aliqua duo ab illis
gradibus

in iſto iſtãti medio nõ deueniet.a.ad.c.gᵐ.ꝯñs eſt ꝯtra poſitũ.Si vero dicat̃ ꝙ.a.tũc mouebit̃ velocius.c.⁊ ꝯtinue intẽdet motũ.c.mouẽte vniformiter:ergo imediate poſt illud inſtãs mediũ.d.a.pcedet.c.⁊ ꝑ ꝯñs incipiet in iſtãti medio mouere cũ reſiſtentia maiori ꝙ̃ eſt.c.gradus.ⁱ ſi ſic mediate poſt iſtãs mediũ mouebit̃ tardius ꝙ̃ in illo iſtãti:ⁱ ꝑ ꝯñs nõ per totũ.d.tpꝰ intẽdet motũ ſuũ.ⁱ ſic de oĩ alio tpe terminato ad pũᵐ iſtius tpis totus eſt arguentũ:ꝙ.ſ.per idẽ tpꝰ nõ intẽdet. Nec ꝑ aliquod tpꝰ terminatũ ad pũᵐ remittet motũ ſuũ:quia ſit.d.illud tpꝰ:ⁱ ſit.c.gradus reſiſtẽtie quẽ hẽbit in medio iſtãti.d.tunc vt prius ſi.a.mouebit̃ equ**e**velociter cũ.c.vel velocius ⁱ ꝯtinue ante illud iſtãs mouebit̃ velocius ꝙ̃ tunc:eo ꝙ remittet motũ ſuũ ꝯtinue.c.mouẽte vniformiter:ⁱ ab eodẽ extremo inceperũt mouere.a.ⁱ.c.ergo.a.ꝓtũc erit vltra.c.ⁱ nõ mouebit̃ cum.c.ſi tũc mouebit̃ tardius ⁱ ꝯtinue remittet motũ ſuũ.c.mouẽte vniformiter.ſequit̃ ergo ꝯcedendo ꝙ imediate poſt idẽ iſtãs mediũ.c.pcedet.a.ergo poſt illud inſtãs mouebit̃ cũ reſiſtentia minori ꝙ̃ eſt.c.ⁱ ꝑ ꝯñs nõ per totũ illud tpꝰ remittet motũ ſuũ.ſequit̃ ergo ꝙ ꝑ nullũ tpꝰ terminatũ ad pũᵐ remittet motũ ſuũ vel intẽdet. Nec per aliquod aliud tpꝰ intẽdet motũ ſuũ vel remittet:quia ſi ſic ſignet̃ illud iſtãs in quo ꝓ incipit intẽdẽ vel remittẽ:ⁱ ſit.c.gradus reſiſtentie quẽ ꝓtũc habeat:ⁱ arguitur ſic.a.tunc mouebit̃ equevelociter cũ.c.ⁱ ꝯtinue ante tardius:ⁱ ſi ſic incipiet.a.intẽdẽ motũ ſuũ.c.mouẽte vniformiter:ſequit̃ ꝙ tũc incipiet.a.pcedẽ.c.ⁱ ſi ſic tunc incipiet moueri cũ maiori reſiſtentia ꝙ̃ eſt.c.ⁱ ꝑ ꝯñs tũc incipiet remittẽ motũ ſuũ et nõ intẽdere.ſi ẽt tunc incipet remittẽ motũ ſuũ:ⁱ tũc.c.incipet pcedẽ:ⁱ per ꝯñs tũc incipet.a.moueri cũ reſiſtentia minori ꝙ̃ eſt.c.cũ quo gradu in iſtãti dato mouebit̃.ⁱ ſi ſic tunc incipet intẽdẽ motũ ⁱ nõ remittẽ:ⁱ ſi ſic ſi tũc incipet intẽdẽ:ſequit̃ ꝙ tũc incipiet remittẽ ⁱ econtra.ꝯñs impoſſibile.ſequit̃ ergo ꝙ nunꝙ̃ intẽdet motũ ſuũ nec remittet:ⁱ per ꝯñs ꝯtinue mouebit̃ vniformiter. ¶ Ex quo huius ſit reſiſtentia ab octo vſq; ad nõ gradum ꝓgrediens in.b.medio:ita ꝙ extremum intenſius moueat̃ ꝯtinue a ꝓportione quadrupla:ⁱ ſit.a.poſitũ vt octo:que.ſ.ad gradũ eius mediũ habeat ꝓportionem duplã:ⁱ ſequit̃ ꝙ.a.ꝯtinue manebit vniformiter mouẽs a ꝓportione dupla:quia ſi mouebit velocius ꝙ̃ a ꝓportione dupla pcedet gradum vt 4.ᵒʳ motũ a ꝓportione dupla:ⁱ per ꝯñs mouebit̃ tũc a ꝓportione minori ꝙ̃ dupla.ⁱ ſi mouebit̃ tardius ꝙ̃ a ꝓportione dupla mouebit̃ cum reſiſtentia minori ꝙ̃ eſt gradus medius:ergo nõ põt poni ꝙ moueat̃ velocius ꝙ̃ ille gradus vt 4.ᵒʳ nec tardius:ⁱ per ꝯñs mouebit̃ equevelociter cũ illo gradu.ⁱ ſi ſic ꝯtinue mouebit̃.a.vniformiter ſicut iſte

2ª ꝯclo gradus:quod fuit ꝓbandũ. ¶ Ex iſto deducit̃ ꝙ vbicũq; in tale vacuũ ſeu mediũ nõ reſiſtẽs inducit̃ latitudo vniformiter difformis extremo remiſſiori quieſcẽte:cuius quilibet gradus ꝯtinue intẽdat motũ ſuũ:ita tamen ꝙ latitudo maneat vniformiter difformis mobile incipiẽs motũ in

3ª ꝯclo illo extremo mouebit̃ ꝯtinue velocius ⁱ velocius. ¶ Et ſi quilibet gradus remittat motũ ſuũ/illud mouẽs remittet motũ ſuũm. ¶ Primũ ſic arguitur.nõ põt remittẽ motũ ſuũ nec mouere vniformiter:ergo intẽdet motũ ſuũm. Añs patet:quia ſi moueret̃ vniformiter ſit ille gradus.c.cũ quo mouebit̃:tunc extra quod mouebit̃ vniformiter ſꝑ mouebit̃ vniformiter cũ eadẽ reſiſtentia:ergo ſi tũc mouebit̃ cũ c.ita ꝯtinue faciet:ⁱ.c.ꝯtinue intẽdet motũ ſuũ:ergo ⁱ idẽ mobile intẽdet motũ ſuũ dũ mouebit̃:ⁱ nõ mouebit̃ vniformiter. Si igit̃ remittet motũ ſuũ per tpꝰ terminatũ ad pũᵐ tpis:ſequit̃ ꝙ in aliquo iſtãti illius tpis erit ad aliquẽ gradum qui ſit.c.vel ergo tũc mouebit̃ equevelociter cũ.c.vel velocius vel tardius:nõ equevelociter vel velocius:quia cũ ꝯtinue remittat motum:ⁱ.c.intẽdat ꝯtinue ante id iſtãs mouebit̃ velocius ꝙ̃.c.ergo tũc nõ erit ꝓciſe cum.c.ſ; vltra.c.ſequit̃ ergo ꝙ tũc mouebit̃ tardius ꝙ̃.c.ⁱ ꝑ ꝯñs.c.imediate poſt iſtãs datũ pcedet.a.ⁱ ſic.a.imediate poſt id inſtãs datũ mouebit̃ cũ reſiſtentia minori ꝙ̃ eſt.c.ⁱ ſic incipiet intẽdẽ motũ ſuũ:ⁱ ſic nõ ꝑ totũ tpꝰ datũ remittet motum.nec põt poni ꝙ ꝑ aliquod aliud tpꝰ mouebit̃ vniformiter vel remittet motũ ſuũ:quia ſi ſic ſit illud iſtãs.d.in quo incipiet moueri vniformiter vel remittẽ:ⁱ ſequit̃ ꝙ ꝯtinue mouebit̃ cũ reſiſtentia minori ⁱ vſq; ad.d.iſtãs intẽdet motũ ſuũ:ergo ꝯtinue ante.d.iſtãs erit vltra gradum reſiſtentie quẽ tũc hẽbit ꝙ ſit.c.ⁱ per ꝯñs tũc mouebit̃.a.tardius ꝙ̃.c.vel equevelociter cũ.c.quia ſi.a.tũc mouebit̃ velocius.c.ⁱ neutrũ tunc in aliqua ꝓportione mouebit̃ velocius ꝙ̃ imediate ante illud iſtãs:ſequit̃ ꝙ ad tpꝰ terminatũ ad idẽ iſtãs.ſ.d.mouebit̃.a.velocius.c.ⁱ ſꝑ ante illud iſtãs erit vltra.c.vt pdicatũ eſt.ergo tũc erit vltra.c.ⁱ nõ ad.c.ſequit̃ ergo ꝙ tũc mouebit̃ tardius ꝙ̃.c.vel pciſe equevelociter:ſi equevelociter ⁱ.c.intendet motũ ſuũ:ⁱ.a.mouebit̃ vniformiter vel remittet motũ ſuũ iuxta falſigraphũ:ergo tũc.c.incipiet pcedẽ.a.ⁱ ꝑ ꝯñs.a.incipiet moueri cũ reſiſtentia minori ꝙ̃.c.ⁱ ꝑ ꝯñs tũc incipiet intẽdẽ motũ ⁱ nõ mouẽ vniformiter nec remittẽ:ſi ẽt.a.tũc mouebit̃ tardius ꝙ̃.c.illud idẽ ſequit̃ vt patet.ſequit̃ ergo ꝙ.a.ꝯtinue intẽdet motũ ſuũ. ¶ Conſiliter omnino ꝓbat̃ 3ª ꝯcluſio ꝙ idẽ mobile nõ poterit moueri vniformiter nec intẽdẽ motũ:vbi tamen prius dicitur ꝙ nõ remittet nec mouebit̃ vniformiter:hic tamen dicatur ꝙ nõ põt intendẽ nec moueri vniformiter.ⁱ patet veritas iſtius ꝯcluſionis. ¶ Contra ꝯcluſionẽ primã arguitur ſic. Sint infinita media equalia.b.ꝑ quorum primi medietatem extẽdat̃.c.latitudo vniformiter:ⁱ per 4.ᵃˢ 2ⁱ extẽdat̃ eadẽ latitudo vniformiter:ⁱ per 8.ᵃˢ 3ⁱ:ⁱ ſic in infinitum ꝓgrediat̃ illa latitudo in oĩa illa media ſic in.b.manẽs vniformiter extẽſa:ⁱ moueat̃.a.mobile in iſto medio quod eſt.b.ⁱ terminet̃ iſta reſiſtentia ad gradum.a.ⁱ in quolibet illorum mediorum moueat̃ potentia equalis.a.quo poſito arguit̃ ſic. Infinitum tarde icipit aliquod illorum mobiliũ moueri i aliquo illorum mediorum:ⁱ tardius.a.ꝙ̃ aliquod illorum:ergo infinitum tarde incipit.a.moueri. Maior arguitur ſic. Infinitum tarde incipet aliquod illorum moueri ſtãte latitudine nõ mota in illis medijs:ſ; in nulla ꝓportione incipit aliquod illorum moueri velocius ꝙ̃ ſi maneret latitudo in illis medijs:ergo infinite tarde incipit aliquod illorum moueri. Maior ſic patet:infinita modica eſt pars ꝑ quã extẽdit̃.c.latitudo in aliquo illorum mediorum:ⁱ nunꝙ̃ aliquod illorum mobiliũ pertranſiret partẽ ꝑ quã extẽdit̃ illa latitudo manẽte illa latitudine:quia mobile nõ põt pertranſire mediũ vniformiter difforme terminatũ ad gradum ſuũ vt argutũ eſt prius.ergo ſequit̃ ꝙ infinite tarde ꝯtinue mouebit̃ aliquod illorum mobiliũ ſtãte latitudine nõ mota in illis medijs. Et ꝙ in nulla ꝓportione velocius icipit aliquod illorum mouẽ ꝙ̃ ſi maneret latitudo nõ mota:arguit̃ ſic.ſi aliquod ſit tale ſit illud.d.ⁱ ſuum mediũ.c.ꝯ tardius incipit mouẽ in.c.ꝙ̃ in aliquo medio maiori parte per quã extẽdit̃.c.latitudo quod mediũ maius eẽt diſpoſitũ.c.latitudine ſicut eſt illa pars.c.ſ; infinitum modice velocius incipit moueri in aliquo maiori parte iſta.c.ꝙ̃ in.c.incipet mouẽ ſtãte ſua latitudine:ergo nũc in illa ꝓportione velocius icipit.d.mouẽ in.c.vel tardius remittẽ ꝙ̃ ſi latitudo in eo nõ ꝓgrederet̃.ꝯña patet ⁱ minor patet:quia infinitum modice eſt aliquod maius parte illa.c.ergo licet oĩa maiora.c.eẽnt conſimiliter diſpoſita cũ.c.infinite modice velocius incipet.d.mouẽ in aliquo illorum ꝙ̃ in.c.ſi ſtaret latitudo in eo.patet ergo minor. Et maior ſic arguit̃. Quocũq; maius parte.c.ꝑ quam illa latitudo extẽdit̃ ꝑ magnum tpꝰ manebit maius parte.c.per quã iſta latitudo extẽdit̃:ex quo ſolum finite velociter ꝓgredit̃ illa latitudo ⁱ vlterius vt ꝓbat̃ in ſubo maiori conſimiliter diſpoſito cum minori erit motus velocior ꝙ̃ in minori:ergo in quocũq; maiori parte.c.per quã hec latitudo extẽdit̃ velocior icipit eẽ motus ꝙ̃ in.c.ergo infinite modice velocius incipit mouere in aliquo maiori parte.c.data ꝙ̃ in illa parte ſtãte latitudine per ipſam:ergo in nulla ꝓportione velocius icipit.d.mouẽ ꝙ̃ ſi latitudo ſtaret omnino nõ mota:ⁱ ſic de oĩ alio illorum infinitorum mobiliũ ꝙ in nulla ꝓportione velocius incipit aliquod illorum mouere ꝙ̃ ſi in ſuis medijs ſtaret latitudo omnino nõ mota:ⁱ tũc infinite tarde incipet aliquod illorum mouere:ergo nunc infinite tarde incipit aliquod illorum mouere. Añs ꝓbatũ eſt prius:ⁱ ſic patet maior prime ꝯſequẽtie:ⁱ minor eiuſdem.ſ.ꝙ.a.tardius incipit mouere ꝙ̃ aliquod illorum:quia pars reſiſtẽs.a.incipit eſſe minor ⁱ ꝯtinue erit minor parte per quã eadẽ latitudo extẽdet̃ in illis infinitis:ergo tardius incipit mouere.a.ꝙ̃ aliquod illorum:quia ſi equevelociter incipiat mouere cũ aliquo illorum/incipet equaliter diſtare ab extremo.b.ſicut illud cũ quo equevelociter mouebit̃ incipit diſta-

re ab extre° ſui medij ⁊ oīs g° reſi° erit ꝓpinqoꝛ extremo remiſſioꝛi.b.ꝙ̄ extre° illi° medij qōcūqꝫ illoꝝ iſi^{toꝝ} dcē ut pꝫ.ḡ cuꝫ maioꝛi reſi^a incipit.a.mouere ꝙ̄ 1° mobile datū:⁊ per ↄn̄s tardi° incipit.a.mouere.idē eſt ar^m ſi dicat̄ ꝙ ali/ qō illoꝝ tardi° incipiat mouere ipo.a.ꝙ.a.incipit cū maio ri reſi^a ꝙ̄ illō.d.datū:⁊ per ↄn̄s.a.nō veloci° illo.ſeq̄t̄ ḡ ꝙ a.tardi° incipit mouē ꝙ̄ aliqō illoꝝ:⁊ ut ṗus īfinite tarde incipit aliqō illoꝝ moueri:ḡ īfinite tarde incipit.a.moue/ ri:⁊ ſic nō ↄtinue vnifoꝛ^r mouebit̄.ḡ ↄ̄ falſa. ¶ Ad idē ſic arguit̄. Ponat̄ caſus ꝓpoſit° de illis īfinitis ꝑter B ꝙ po/ nat̄ in illis eē ꝓgreſſus ꝙ hic omittat̄.Et ponat̄ ꝙ ſtet la/ titudo in oīb° illis.Et arguit̄ ſic.īfinite tarde incipit aliqō illoꝝ iſi^{toꝝ} in ſuo me°moueri ut ṗus argutū eſt:eo ꝙ īfini/ te modicaꝫ eſt reſiſtēs re^a alicui°illoꝝ qō in nullo tp̄e fini/ to trāſiet̄:ḡ nō eſt aliqua velocitas ita modica qn̄ ſit dare aliqō illoꝝ medioꝝ in quo minoꝛi velocitate incipit eſſe mot° ꝙ̄ eſt illa velocitas.⁊ ſi ſic g^{us} remiſſioꝛi ꝙ̄ eſt g° vni/ foꝛmis quo po^r.a.moueri in.b.incipit aliqō illoꝝ mobiliū moueri:⁊ tardi°incipit.a.ꝙ̄ aliqō illoꝝ:qꝛ cuiuſlibꝫ illoꝝ eſt pars reſiſtēs certe q̄n^{tis} ⁊ īfinite modice q̄n^{tis} incipit eē pars reſiſtēs.b.ḡ g^{us} remiſſioꝛi ꝙ̄ eſt g° quo ponit̄.a.mo ueri vniformiter incipit.a.moueri : ⁊ per ↄn̄s nō ↄti^e vni/ formiter mouebit̄ gradu dato qſcūqꝫ fuerit.ḡ ↄclō falſa.

ↄtra 2m ¶ Cōſil^r pōt argui ↄ̄ 2^{am} ⁊ 3^{am} ponendo in 2^a ↄ̄ne ꝙ certe velociter incipiat extre^m illi° lati^{nis} terminare ad.a.mouē: qꝛ ut argutū eſt qſcūqꝫ g^m mot° dcē g^{us} remiſſioꝛi incipit.a. mouere:⁊ oīs g° hui°lati^{nis} certe velociter incipit moueri:ḡ qſcūqꝫ g^s reſi^e dcē ille veloci°incipit moueri ꝙ̄.a.ḡ nullus eſt g° reſi^e cuꝫ quo tūc incipit moueri qn̄ incipit attingē:et in oī īſtāti hui°tp̄is īmīn^{co} eſt dare certū g^m reſi^e cū quo tūc mouebit̄:ḡ aliqn̄ ante id inſtās remittet motū:qꝛ tūc mo/ uebit̄ cuꝫ reſi^a maioꝛi ꝙ̄ ṗus.Seq̄t̄ ḡ ↄ̄nē 2^{am} eſſe falſam.

ↄtra 3m ¶ 3^{am} ſil^r arguit̄ eē falſam:qꝛ ut ar^m eſt īfinite tarde inci/ pit.a.mouere:ḡ nō ↄtinue remittet motū ſuū:qꝛ tūc īfini/

Solō te tarde moueret̄:qō eſt impoſſe. ¶ Pro iſtis rn̄det̄ ↄce^{do} ↄ̄nes ⁊ ad caſuꝫ in oppo^m qn̄ ponit̄ de illis īfinitis admit/ tat̄:⁊ tūc ad ṗ^m ar^m negat̄ ꝙ īfinite tarde incipit aliqō iſi^{toꝝ} moueri:⁊ ↄcedit̄ ꝙ nūc incipet aliqō illoꝝ iſi^{toꝝ} īfinite tar de moueri ſi nō ꝓgrederet̄ latitudo reſi^e in ſuū mediū.Et dī ꝙ īfinite tarde incipet aliqō iſtoꝝ moueri ſi ſtaret eius latitudo que nūc mouet̄:⁊ tūc qn̄ ponit̄ ꝙ illō ſit.d.negat̄ caſus.Cui°cā eſt:qꝛ dī ꝙ nullū eſt tale in quo in aliq̄ certa ꝓpoꝛ^{ne} veloci° incipit mouere ꝙ̄ ſi ſtaret ei°latitudo ſicut arg^m hn̄ ꝓbat.Et cā hui° ſophiſmatis eſt:qꝛ īfinite maioꝛ incipit eē pars per quā extēdet̄ lati^{do} in aliq̄ illoꝝ ꝙ̄ nunc eſt:eo ꝙ īfinite modica eſt pars hꝫ alicui°illoꝝ:⁊ certe ve/ lociter incipit latitudo in qōlibet illoꝝ ꝓgredi:nullum tn̄ certū in aliq̄ certa ꝓpoꝛ^e incipit hr̄e ꝑtē maioꝛē per quam extēdat̄ lati^{do} quā nūc hꝫ:qꝛ ſolū finite velociter maioꝛat̄ latitudo quo ad ꝑtes ſubti. Ex^m huius eſt ſatis familiare. Sint īfinita:q̄rū ṗ^m ſit aliquātū:⁊ 2^m in duplo min°:⁊ 3^m in q̄druplo minus:⁊ ſic in īfi^m:⁊ incipiāt eq̄velociter oīa acq rere de q̄ntitate ſine deꝑditōe q̄ntitatis:⁊ ſeq̄t̄ ꝙ īfinite ma ius incipit aliqō illoꝝ eē ꝙ̄ ipm nūc eſt:qꝛ īfinite modicū eſt aliqō illoꝝ ⁊ certe velociter acq̄rēs de q̄ntitate:⁊ tn̄ qō/ cūqꝫ dcē in nulla ꝓpoꝛ^e incipit eē mai° ꝙ̄ ipm eſt:qꝛ que/ cūqꝫ ꝓpoꝛ^o dcē tp̄s erit anteꝙ̄ aliqō certū illoꝝ per tantā ꝓpoꝛtionē maioꝛabit̄:⁊ ſic oīno eēt in ꝓpoſito:ꝙ.ſ.per īfi/ nitū modicū plus incipit iſta latitudo extēdi in aliquo ꝙ̄ nūc extēdat̄:⁊ in nullo certo per ſubīm in aliq̄ ꝓpoꝛ^{ne} mai° ut ↄſtat:ideo nūc incipet īfinite tardius moueri in aliq̄ il/ loꝝ ſtāte ſua latitudine nō mota ꝙ̄ nūc incipit:⁊ tn̄ nullū eſt illō in quo certa ꝓpoꝛtiōe tardi°:⁊ ſic nō ꝓcedit ar^m:qꝛ depēdet ſup B ꝙ īfinite tarde incipit aliqō illoꝝ moueri: qō B negat̄. ¶ Ad 2^m arg^m ↄcedit̄ ꝙ īfinite tarde incipit

aliqō illoꝝ iſi^{toꝝ} moueri ſtāte latitudine in q̄libet.⁊ negat̄ ↄn̄tia ulteri° qn̄ ↄcludit̄ ꝙ nulla eſt velocitas ita modica qn̄ minoꝛi illa certū illoꝝ incipit moueri:qꝛ detur g° quo ſufficit moueri cū extre° remiſſioꝛi illi°lati^{nis}:cuꝫ in oī cer/ to illoꝝ q̄libet g° reſi^e per certā diſtantiā diſtat ab extre°: ideo nō eſt g° aliq̄s reſi^e itrin^{ſecus} in aliq̄ certo illoꝝ quo in/ cipit aliqō iſtoꝛuꝫ moueri:⁊ quo.a.incipit moueri:ideo in nulla ꝓpoꝛ^e minoꝛi in aliq̄ certo medio illoꝝ incipit aliqō illoꝝ mobiliū moueri ꝙ̄ eſt g° velocitatis quo ſufficit mō ueri cū extremo remiſſioꝛi illi° lati^{nis} terminati ad certū g^m reſi^e:⁊ ſi terminet̄ ad nō g^m reſi^e nullꝰ eſt g° mot° dcē quo ꝓciſe incipit mouē:ſꝫ magnū tp̄s erit anteꝙ̄ ad talē g^m mo tus re^a alicui°illoꝝ certi remittet̄:qꝛ cuꝫ īfinite ꝓpinquus eſt q̄libet g^s illius lati^{nis} extre° remiſſioꝛi alicui° illoꝝ me/ dioꝝ:qꝛ ꝑ īfinitā modicā ꝑtē extēdit̄ in aliq̄:ideo non eſt aliq̄s g° cū quo ſufficit illō mobile mouere qn̄ ad id ſubi/ to deueniet deducta ꝓgreſſione illi° lati^{nis}:qꝛ ſignet̄ g̃dus qſcūqꝫ cuꝫ quo ſufficit mouere:et ſeq̄t̄ ꝙ ſi lati^{do} ab illo g^o vſqꝫ ad extre^m remiſſius per aliquātulū extēderet̄ in aliq̄ tp̄e poſſet mobile eq̄le.a.ad illū g^m deuenire ⁊ totā ꝑtēꝫ ꝑ quā extēdit̄ trāſire:⁊ per min° poſſet extēdi:ita ꝙ illō mo bile in duplo minoꝛi tp̄e ad illū g^m deueniret : ⁊ ſic in īfi^m: ſic ꝓbat̄ in vna ↄ̄ne de inductiōe g̃dus ſūmi:vbi ꝓbat̄ ꝙ ꝓpoꝛ^r ſicut vnū ſubīm vnifoꝛ^r difforme alio ſubō ↄſili eſt min°:ita ab eodē mobili ī minoꝛi tp̄e poterit ꝑtrāſiri. Cū ḡ qſcūqꝫ g° lati^{nis} ꝓgredientis in.b.per īnfi^m modicū diſtet ab extre° remiſſioꝛi alicuius illoꝝ medioꝝ:ſeq̄t̄ ꝙ ſubito deueniet mobile eq̄lis po^e cuꝫ.a.ad oēm g^m illi° lati^{nis} ad quē ſufficit in aliq̄ tp̄e deuenire:⁊ ſic īnfinite tarde incipit aliqō illoꝝ mobiliū in aliq̄ illoꝝ medioꝝ mouere ſtāte la titudine in illis:⁊ tn̄ nulla eſt velocitas q̄ incipit aliqō cer tū illoꝝ moueri citra g^m quo ſufficit in extremo remiſſioꝛi iſti°lati^{nis} mouere:⁊ ſic nō ꝓcedit ar^m.Imo ↄcedēdū eſt ꝙ qōcūqꝫ illoꝝ veloci°incipit moueri ipo.a.⁊ tn̄.a.certevelo citer:ita ꝙ nō g^{us} remiſſioꝛi ⁊ īfinite tarde incipit aliqō il/ loꝝ moueri.Si.n.lati^{do} terminet̄ ad nō g^m īfinite velociter incipit qōlibet illoꝝ moueri:qꝛ cuꝫ īfi^m modica reſi^a ⁊.a. ſoluꝫ g^u finito quo.b.ↄti^e mouebit̄ vnifoꝛ^r:⁊ tn̄ īfinite tar/ de incipit aliqō illoꝝ moueri:ut ꝓbatū eſt.⁊ ſic ſubito re/ mittet aliqō illoꝝ a g^u infinito ultra quēcūqꝫ g^m q̄ntūcūqꝫ remiſſius fuerit.Si tn̄ latitudo terminet̄ ad duos g^s nō eſt aliq̄s g̃dus itrinſecus qn̄ cuꝫ minoꝛi incipit qōlibet illoꝝ moueri:qꝛ qōlibet illoꝝ iſtaꝫ lati^{nes} ſucceſſiue ꝑtrāſiret:⁊ aliq̄s eſt cert° g° īntrinſecus reſi^e cū quo.a.ↄtinue mouebit̄: ⁊ tn̄ īfinite tarde incipit aliqō illoꝝ moueri:qꝛ per īfinitū modicaꝫ ↄtinue diſtat aliqō ab extremo itēſioꝛi ſue lati^{nis} nunqꝫ ad idē extre^m deueniēs:ḡ īfinite tarde ante qōcūqꝫ īſtās mouebit̄ aliqō illoꝝ:qō fuit ꝓbādū. ¶ Et per B rn̄/ det̄ ad ar^m facta ↄ̄ alias duas ↄ̄nes:qꝛ ille fundant̄ ſup B ꝙ īfinite tarde incipit.a.mouē qō eſt negatū:⁊ ſoluit̄ arg^m ad B factū ⁊c̄. ¶ Si in mediū nō q̄lificatū vel nō reſiſtēs

4ª ↄclō inducat̄ lati^{do} vnifoꝛ^r difformis extre° remiſſioꝛi qeſcēte: cui° q̄libet g° a nō g° vnifoꝛ^r intēdat motū ſuū:po^a ad quā terminat̄ i^a lati^{do} in extre° itēſioꝛi incipiēs mo^m in extre° a quo incipit lati^{do} ꝓgredi tardi° ⁊ tardi° itēdet motū ſuū ſi lati^{do} maneat ↄtinue vnifoꝛ^r extēſa.Cn.n.itēdet motū ſuū ſatis argutū eſt ↄ̄ne 2^a:⁊ tūc arguit̄ ſic.nō pōt poni qō itē/ det motū ſuū vnifoꝛ^r nec veloci°⁊ veloci°:ḡ tardi°⁊ tardi° itēdet.Et ṗ arguit̄ ꝙ nō pōt poni:ꝙ.ſ.vnifoꝛ^r itēdat motū ſuū:qꝛ a nō g° mot°incipit mot°ei° itēdi:ḡ ſi vniformiter intēderet̄ in triplo plus ꝑtrāſibit in 2^a medietate illi° tp̄is ꝙ̄ in ṗ^a:ſicut ꝓbatū eſt in ↄ̄ne.3o.2ª ſuppōne eiuſdē ↄ̄nis in de motu locali.ↄn̄s eſt falſuꝫ.ſꝫ an̄s ṗ arguit̄ ſic. Si nō īfinite tarde incipit moueri cū extre^m itēſius illi°lati^{nis} īfi/ nite tarde incipit mouere:ſeq̄t̄ ꝙ incipit moueri cū extre° itēſioꝛi

intenſiori illiꝰ lati: ⁊ ēt incipiū p̄cedere illud extre: ⁊ per
ꝯñs cuꝫ reſi extremi itēſioris ſit eq̄lis ſue po:ſeq̄t ꝙ iſu-
mite tarde incipit moueri:q2 a ꝓpoꝛ eq̄litatis ſeu infinite
modica ꝓpoꝛ maioris ineq̄litatis:qḋ fuit pbādū. Patet g̊
aīs iſtiꝰ ꝯñtie: ⁊ falſitas ꝯñtis arguit̃ ſic. ſi id ſit verū ſit.c.
g reſi ad quē in fine illiꝰ tp̄is deueniet. ⁊ arguit̃ ſic.c. vni-
formiter intēdet motū ſuū a nō g:g̊ in triplo plus ꝑtrāſi-
bit in 2ª medietate iſtiꝰ tp̄is q̄ȝ in pª: ⁊ per ꝯñs.c. in fine in
q̄druꝰ plus diſtabit ab extremo illius medij qḋ mediū ſit
b. a quo incipit latiᵒ ꝓgredi q̄ȝ in inſtāti medio. ⁊ ſi ſic in
iſtāti medio erit.c. ad pūctuꝫ terminātē pꝫ 4.ꝫ totiꝰ ꝑtrā-
ſeundi a.c. in iſto tp̄e. Si ēt illud mobile vniformiter itē-
det moᵐ in triplo plus ꝑtrāſibit in 2ª medietate tp̄is q̄ȝ in
pª: g̊ in iſtāti medio erit ſolū 4ª totiꝰ trāſeūdi in iſto tp̄e ꝑ-
trāſita: ⁊ illa eadē 4ª in iſto iſtanti medio erit ꝑtrāſita a.c.
g. g̊ iſtud mobile in iſtāti medio mouebit̃ cuꝫ.c.g: ⁊ in fi-
ne ſilr̄ per poſitū:g̊ in fine mouebit̃ equalr̄ ꝑciſe ſic̄ in iſtā
ti medio. ꝯñs falſuꝫ:eo ꝙ ꝯtinue intēdet motū ſuū. ſeq̄t̃ g̊
ꝙ nō vniforꝛ itēdet motū nec velociꝰ ⁊ velociꝰ:q2 ſi ſic cū
a nō g incipit morꝰ eiꝰ itēdi:ſeq̄t̃ ꝙ in 2ª medietate ꝑtrāſi
bit plus q̄ȝ triplū ad illud qḋ ꝑtrāſibit in pª medietate iſtius
tp̄is:ſic̄ ꝓbatū eſt in ꝯne 30ª. vbi tāgit̃ de motu locali. ⁊ ꝑ
ꝯñs in iſtāti medio nō erit 4ª totiꝰ ꝑtrāſeūdi ab eo in toto
tp̄e ꝑtrāſita. ſit g̊.c. gradus ad queꝫ in fine deueniet: ⁊ ſeq̄t̃
vt p̄us ꝙ ꝑtrāſibit 4.ꝫ iſtiꝰ ſpacij in pª medietate tp̄is. ⁊ ſi
ſic plus ꝑtrāſibit.c. in pª medietate tp̄is q̄ȝ illud mobile: ⁊
per ꝯñs in iſtāti medio mouebit̃ iſta po cū g reſi remiſ-
ſiori q̄ȝ eſt.c. cuꝫ in fine mouebit̃.c.g: vt poſitū eſt. g̊ in fi-
ne mouebit̃ tardiꝰ q̄ȝ in iſtāti medio. ꝯñs falſuꝫ:q2 per to-
tū tp̄s illud itēdet motū ſuū. ſeq̄t̃ g̊ ꝙ nō pōt poni ꝙ intē-
dat iſta po motū ſuuꝫ vniformiter nec velociꝰ ⁊ velocius:
ideo itēdet motū ſuū tardiꝰ ⁊ tardiꝰ:q2 ſi nō tardius ⁊ tar-
5ª ꝯclo nonda dius itēderet:g̊ vniformiter itēderet vel velociꝰ ⁊ velociꝰ:
ex q̊ mediū erit vniformiter difforꝛ. ¶ Pro quo p̄ eſt notā
dū ꝙ vbi talis latiᵒ mouet̃: ⁊ po etiā mouet̃ verſus extreᵐ
itēſius:ita tñ ꝙ reᵃ ſui decreſcat reſiª:data velociᵗᵉ qua cre
ſceret reſiª reᵃ illiꝰ mobilis ſic mouētis in illa latiᵉ: q̄ſcē-
te illa latitudine: ⁊ data ēt velocitate qua decreſceret reſiª
reᵃ illiꝰ mobilis q̄ſcētis oīno per motū illiꝰ latiᵒⁱˢ:exceſſui
vniꝰ velocitatis ſup aliā decremētū illiꝰ reſi per moᵐ mo
bilis ⁊ motū illiꝰ latiᵒⁱˢ corrñdet. B pꝫ vt ſi decremētū eēt
vt octo ſtāte mobili ⁊ cremētū vt 4ᵒʳ ſtāte latitudine:reſiª
iſta decreſcet g vt 4ᵒʳ:q2 ſi tātū vel ſolū decreſceret reſiª
iſta velocitate vt 4ᵒʳ ſtāte mobili ſic̄ creſceret reᵃ mobiliſ
ſtāte latituᵉ: reſiª neq̄ȝ decreſceret nec creſceret reᵃ illius
mobilis moti velocitate vt 4ᵒʳ. Sꝫ nunc in duplo velociꝰ
decreſceret reſiª ſtāte mobili q̄ȝ tūc:g̊ nūc decreſcet reᵃ il-
lius mobilis moti velocitate vt 4ᵒʳ: ⁊ ſic de oī alia veloci-
6ª ꝯ bñ nonda tate eſt arguēdū. ¶ Ex B deducit̃ ꝙ ſi ad vnū pūctū vel
g in hoc medio ꝓgrediēte latituᵉ intēdat̃ morꝰ aliq̄ velo-
citate ad g minorē reſi pro eodē iſtāti tardiꝰ itēdet̃ mo-
tus q̄ȝ ad illū g magis reſiſtētē ſiue illa latitudo reſi ter-
minet̃ ad nō g ſiue ad certū g in extremo ſuo remiſſio-
ri. Et p̄ arguit̃ illud vbi latitudo terminat̃ ad non g: ⁊ ſit
nūc.a. cuꝫ aliq̄ g:ita ꝙ itēdat motū ꝯtinue qui gradus ſit.b.
⁊ ſit.c. vnus gradus remiſſior: ⁊ ꝓbat̃ ꝙ ſi.a. poneret̃ ad.c.
tardiꝰ itēderet motū q̄ȝ nūc itēdit ad.b. vel ꝙ nō itēderet
ad.c. ſic̄ eēt ſi.c. moueret̃ eq̄uelociter ſic̄.a. ſufficeret cuꝫ eo
vel tardiꝰ. Sit eniꝫ.d. mouēs cuꝫ.c. in ea ꝓpoꝛ tardiꝰ q̄ȝ.a.
cū.b. in qua ꝓpoꝛ.c. gradus eſt remiſſior g.b. tūc ſic̄ notū
eſt:ſic̄.c. gradus eſt remiſſior.b. ita tardiꝰ mouet̃:ex q̊ lati-
tudo ꝯtinue manebit vniformiter difformis terminata ad
nō g:que ꝓportio ſit.f. tūc ſic̄ in.f. ꝓpoꝛ tardiꝰ mouet̃.c.
q̄ȝ.b. ⁊ ēt.d. in eadē ꝓportiōe tardiꝰ q̄ȝ.a. vt poſitū eſt. g̊ tā-
ta erit ꝓpoꝛ morꝰ.c. ad motū.d. ſic̄ morꝰ.b. ad motū.a. ⁊ ꝑ
ꝯñs eq̄uelociter intēdet.d. motū ſuū ſic̄.a. ſuū. ꝯñtia pꝫ:q2
in.f. ꝓportiōe tardiꝰ creſcet reſiª reᵃ.d. q̄ȝ reᵃ.a. ſtāte latitu-
dine nō mota:q2 mediuꝫ eſt vniformiter difforme: ⁊.d. in
f. ꝓportiōe tardius mouet̃ q̄ȝ.a. cū g̊ decremētū reſiſtētie
reᵉ.d. eēt in.f. ꝓportiōe maius ſi.d. q̄ſceret mota latitudi
ne q̄ȝ cremētū eēt reᵉ.d. ſi q̄ſceret illa latiᵒ ita ēt eēt de.a.
q2 g̊dus illi.b.c. in.f. ꝓportione velociꝰ mouerent̃ q̄ȝ.d.a.
ſeq̄t̃ ꝙ in.f. ꝓportiōe tardiꝰ decreſceret nūc reſiª reᵉ.d. q̄ȝ
reᵉ.a. ꝯñtia pꝫ per ꝓximā ꝯnē:q2 in.f. ꝓportiōe minor eēt
exceſſus decremēti reſiſtētie.d. ſupra ſuū cremētuꝫ ſi ſta-
ret latitudo: q̄ȝ eēt reᵉ.a. eo ꝙ q̄ñ ſunt duo ad que alia duo
hñt ꝓportiōes eq̄les:ſic̄ vnū illoꝝ duoꝝ eſt alio minꝰ:ita
id qḋ ſibi ꝓportionat̃ per minꝰ ipm̄ excedit q̄ȝ illud ꝓpoꝛ
tionatū maiori excedat maius:ſic̄ p̄us eſt ꝓbatū. Tuc ar-
guit̃ ex ꝯñti in.f. ꝓportione tardiꝰ decreſcit reſiª.d. q̄ȝ reſiª
a. ⁊ reſiª.d. eſt in.f. ꝓportione minor q̄ȝ reſiª.a. per poſitū:
g̊ eq̄uelociter itēdit.d. motū ſuuꝫ ſic̄.a. ſuū:q2 eque ꝓpoꝛ
decreſcūt ſue reſiſtētie:ſꝫ tardius itēderet.a. motū ſuuꝫ ad
c.g q̄ȝ.d. g̊ ad.c. tardius itēdet.a. q̄ȝ ad.b. ꝯñtia pꝫ ⁊ minor
ſic arguit̃. minor eēt ꝓportio morꝰ.c. ad motum.a. ſi eēt.a.
ibi q̄ȝ morꝰ.c. ad motuꝫ.d. ad eūdē g: eo ꝙ.a. eſt maioris
po q̄ȝ.d. ⁊ velocius ſufficit mouere q̄ȝ.d. ad.c.g:g̊ cū reſiª
nō decreſcet ibi ſtātibꝰ.a.d. niſi per motū.c. g̊ ſeq̄t ꝙ ſtāti-
bus.a.d. per motū.c. eq̄uelociter decreſceret reſiª reᵃ illoꝝ
ad.c.g: ⁊ velocius creſceret reſiª reᵃ.a. ad.c.g q̄ȝ reᵃ.d. ſi
ſtaret iª latitudo nō mota:q2 morꝰ.a. eſt ibi velocior mo-
tu.d. g̊ minor eſt exceſſus decrementi reſiſtētie reᵃ.a. ſi.a.
ſtaret ad.c.g mota latitudine ſupra cremētū ſue reſi ad
eūdeꝫ g q̄ſcēte illa latitudine: q̄ȝ eēt vnius ſupra aliud.ſ.
decremēti ſupra cremētū in cōparatione ad.d. g̊ per ꝓximā
tardius ad.c.g decreſcet reſiª reᵃ.a. q̄ȝ reᵃ.d. ⁊ per ꝯñs tar
dius itēdet.a. motū ſuuꝫ ad.c. q̄ȝ.d. ad.c. ⁊ per ꝓbatū eq̄ue-
lociter itēdet.d. cū.c.g ſicut.a. cū.b. g̊ tardius itēdet.a. mo
tū ſuū cuꝫ.c. q̄ȝ cuꝫ.b. qḋ fuit ꝓbādū. Et ſic pꝫ illa ꝯcl̄o vbi
latitudo reſiſtētie terminat̃ ad nō g. Eadē etiā ꝓbat̃ vbi
latitudo reſiſtētie terminat̃ ad g:q2 vt p̄us moueat̃.a. cū
b. gradu cuꝫ quo itēdet motū ſuū: ⁊ ſit.c. gradus remiſſior
q̄ȝ.b. ⁊ arguit̃ ꝙ.a. tardius itēdet motū ſuuꝫ ad.c. q̄ȝ ad.b.
mouet̃ eiꝫ.c. in.f. ꝓportiōe tardius q̄ȝ.b. ⁊ mouet̃ etiā.d. cū
c. in.f. ꝓportione tardius q̄ȝ.a. cū.b. ⁊ ſeq̄t̃ ex q̊ latitudo illa
morꝰ nō terminat̃ ad non g ꝙ maior eſt ꝓportio morꝰ.b.
ad motū.c. q̄ȝ eſt.b. ad.c. Si.n. latitudo reſiſtētie terminat̃
ad nō g:ſic̄ etiā latitudo morꝰ vniformiter difformis tā-
ta foret ꝓportio morꝰ.b. ad motū cuiuſcūq̄ȝ alterius g̊dus
ſicut eēt ꝓpoꝛ.b. ad gradū talē:ſed nūc ad oēm pūctū eſt
maior reſiª q̄ȝ tūc eēt ꝑter q̄ȝ ad.b. g̊ nūc eſt maior ꝓportio
morꝰ.b. ad motuꝫ cuiuſcūq̄ȝ alteriꝰ gradus q̄ȝ eſt ꝓpoꝛ.b.
ad gradū talē. Ex q̊ arguit̃ oīno ſicut p̄us ꝙ in.f. ꝓportiōe
tardius decreſcit reſiª ad.c.g reᵃ.d. q̄ȝ decreſcat ad.b. reᵃ
a. ⁊.c. gradus nō eſt in.f. ꝓportione minor q̄ȝ.b. vt argutuꝫ
eſt. g̊ tardius ꝓportionalr̄ decreſcet reſiª.d. q̄ȝ reſiª.a. et ſi
ſic tardius itēdet.d. motū ſuuꝫ q̄ȝ.a. ſuū. Sꝫ per p̄us argu-
tuꝫ ad.c.g tardius itēdet.a. motū ſuuꝫ q̄ȝ.d. ſuū ad eūdeꝫ
g. g̊ ſeq̄t̃ ꝙ tardius itēdet.a. motū ſuum ad.c. q̄ȝ ad.b. qḋ
fuit ꝓbādū. ¶ Ex B hꝫ ꝙ vbi itēdit vna po motū ſuū ad 7ª ꝯclo
aliquē gradū reſiſtētie mota latitudine mō dicto/oīs po
maior que ibi itēderet motū ſuuꝫ tardius itēderet q̄ȝ po
data oīs que minor velocius itēderet ad illū gradū q̄ȝ ma
ior. ⁊ infinite tarde itēderet aliq̄ po motū ſuū cum illo gra
du. ¶ Prima pars huius ꝯnis arguit̃ ſicut in ꝓxima ꝯne
argutū eſt de.a.d. potētijs:q2 vlr̄ po maior velocius mo-
uet̃ ad eūdeꝫ g q̄ȝ po minor:ideo reᵃ maioris minor eſt
exceſſus decremēti reſiſtētie qḋ eēt ſi ſtaret po non mota
ſupra cremētuꝫ qḋ eēt ſtāte latitudine q̄ȝ reᵃ potētie mino
ris: ⁊ illi exceſſui corrñdet decremētum reſi: vt pꝫ ꝯne 5ª.

ideo maioꝛ poª tardius itēdet motū ꝙ̄ minoꝛ ad eūdē gᵐ.
pꝫ ꝙ̄ pᵃ pars iſtius ɔ̄nis.2ᵃ etiā pars ſic arguit̄.Dato gᵒ tali
ɔtingit accipe poᵃˢ que eq̄ueltoiter moueret̄ cuꝫ iſto gᵘ ſic
ille gradus mouet̄:ꝛ ſeqꝛ ꝙ iſta poª nō itēdet motū ſuuꝫ.
nulla eſt.n.ꝓportio decremēti reſiᶜ ſi ſtaret poª ſupra cre/
mētū ſi ſtaret latitudo nō mota:vel ſaltē ifinite tarde inci
peret itēdere motū ſuuꝫ:ꝙ̄ cuꝫ ifinite modice tardius pōt
aliq̄ poª moueri ꝙ̄ illa poª data ꝛ ħ cuꝫ eodē gᵘ:pꝫ ꝙ ifini
te tarde pōt aliq̄ poª ad illū gᵐ itēdē motū ſuuꝫ:qḋ fuit in/
8ᵃ ɔclo tētū.¶ Ex p̄dictis pōt deduci ꝙ eſt dare minimā veloci/
tatē qua poª ad gᵐ datuꝫ qſcūqꝫ fuerit illiꝰ latiᵗᵘᵈⁱⁿⁱˢ ſic mote:
vt ꝓbat̄ ɔ̄ne 4ᵃ ꝛ alijs ſeq̄ntibꝰ:nō pōt intēdē motū ſuū
ad pūctuꝫ ſignatū:ſꝫ oī velocitate minori pōt itēdē motuꝫ
ſuū aliq̄ poª ad illū pūctuꝫ.Sit eiꝫ.c.vnus gradus illiꝰ lati
tudinis qſcūqꝫ fuerit nō eſt cura:tūc.c.certeuelociter mo/
uet̄.ꝙ̄ ſi ibi ſtaret poª nō mota:reſiª illiꝰ per motū illiꝰ lati/
tudinis certa velocitate decreſceret vt ɔſtat.detꝛ ꝙ̄ veloci/
tas itēſionis motꝰ.ɔ̄ns illud decremētū factū reª alicuius
poᶜ nō variate in poª.ꝛ ſic ſeqꝛ ꝙ nulla poª pōt cuꝫ.c.cum
iſto motu latiᵗᵘᵈⁱⁿⁱˢ itēdē motū ſuuꝫ:q̄a oīs poª ibi mouēs ali/
qualr̄ velociter ad illū gᵐ acquirit de reſiª ſi nō moueret̄ il/
la latiᵗᵘᵈᵒ:ꝙ̄ tardius decreſcet reſiª reªciꝰ ꝙ̄ ſi nō moueret̄.ꝛ
ſi ſic nō itēdet motū velocitatis tāto decremēto correſpōdē/
te q̄ntuꝫ eēt decremētū ſtāte iſta poª nō mota:ſꝫ cuꝫ velo/
citate minori pōt:q̄a vt p̄ius arguituꝫ eſt:infinite tarde pōt
poª aliq̄ ad iſtū gᵐ itēdere motū ſuū. Siľr aliq̄ velocitate
decreſceret iſta reſiª ſtāte poª:ꝛ ɔtingit accipe poᵃˢ aliquā
reª cuiꝰ eq̄uelociter inciperet reſiª creſcē reª latitudinis ſi nō
moueret̄.ſ.poª que ɔtinue moueret̄ cuꝫ illo gradu eq̄uelo
citer ſic ille gradus.Etiā ɔtingit accipe aliquā poᵃˢ eq̄lē il
li reſiᶜ que nō ſufficeret cū gradu illo mouere:ꝙ̄ ifinite tar
de creſceret reſiª reª alicuiꝰ poᶜ ad illū.c.gᵐ ſtāte latitudi/
ne nō mota:ꝛ ſic nō eſt aliquis exceſſus iter gᵐ decremēti
qḋ eēt per motū illiꝰ latitudinis ꝛ nō gᵐ cremēti ſtāte poª
q̄n minoꝛ pōt eē exceſſus iter ħ decremētū ꝛ cremētū qḋ
eēt per motū mobilis quieſcēte latitudine illa:ꝙ̄ nulla eſt
velocitas minoꝛ illa velocitate tali decremēto correſpōdēte:
q̄n ita modica pōt poª aliq̄ in tali medio itēdē motū ſuū.
¶ Itē dato medio in cuius vna p̄te itēdat̄ latitudo ꝓgre
diēs mō dicto:ita ꝙ q̄libet gradus itēdat motū ſuū q̄eſcē/
te extremo remiſſiori nō eſt aliq̄s gradus illiꝰ latiᵗᵘᵈⁱⁿⁱˢ:q̄n cō
tingat accipe poᵃˢ:que ſi eēt applicata ad gᵐ illuꝫ itēderet
motū ſuū ſiue latitudo terminet̄ ad nō gᵐ vel ad gᵐ in ex/
tremo ſuo remiſſioꝛi:qſcūqꝫ.n.gradus det̄ iſte aliq̄ veloci
tate mouet̄.ꝛ ħ loq̄ndo de gradibꝰ itrinſecis iſtiꝰ latitu/
dinis.ꝙ̄ ɔtingit accipe poᵃˢ aliquaꝫ que minori velocitate
pōt mouere cū illo gradu ꝙ̄ ſit velocitas qua iſte gradus
mouet̄:ꝛ talis poª cuꝫ illo gradu itēderet motū ſuū:q̄ gra
dus ille ip̄m p̄cederet:vt manifeſte pꝫ.Ans pꝫ:q̄a dato gᵘ
aliq̄ reſiᶜ cū iſta poª aliq̄ pōt aliqualr̄ velociter mouere ꝛ
in duª tardius pōt alia poª cuꝫ eadē mouere:ꝛ ſic in ifiᵐ vt
9ᵃ ɔclo ɔſtat.ſeqꝛ ꝙ̄ ɔclo.¶ Siľr ſi ſint duo media per q̄rū p̄tes
ineq̄les nūc extēdant̄ ille latitudines oīno ɔſiľes vniforᵉ
difformes:ꝛ q̄libet gradus moueret̄ itēdēdo motū ſuū in
vtroqꝫ medio manēte latitudine vniforᵉ difformi:vniforᵉ
ɔtinue extēſa:ita ꝙ ꝓporᵉ ſicut vna pars medij eſt maioꝛ
p̄te per quā in alio medio extēdit̄ illa latiᵗᵘᵈᵒ:ſic ſit motus
cuiuſlibet ĝdus in iſto maiori velocioꝛ ꝙ̄ in minori.eadē
poª ad oēꝫ punctū maioris velocius itēderet motū ꝙ̄ ad
punctū correſpōdētē minoris.ħ ſic arguit̄.Sit pars per quā
extēdit̄ in vno medio in.f.ꝓporᶜ maioꝛ p̄te per quā extē/
dit̄ in alio medio:ꝛ in eadeꝫ ꝓporᶜ velociꝰ ꝓgrediat̄ latiᵗᵘᵈᵒ
illa in maiori ꝙ̄ in minori:ꝛ ſit.a.poª aliq̄:ꝛ arguit̄ ſic.Det̄
gradus illiꝰ latiᵗᵘᵈⁱⁿⁱˢ:ꝛ ſeqꝛ ꝙ iſte gradus ꝛ oīs alius illiꝰ lati
tudinis in.f.ꝓporᶜ velociꝰ mouet̄ in medio maiori ꝙ̄ mi/
nori:ꝛ pars per quā extēdit̄ in medio maiori eſt etiā in.f.
ꝓporᶜ maioꝛ p̄te per quā extēdit̄ in minori:ꝙ̄ eq̄uelociter
decreſcet reſiª in maiori ſicut in minori:ſi mobile ad ĝdus
correſpōdētes q̄eſceret:cuꝫ ēt mobile aliud eq̄uelociter mo/
uebit̄ in medio minori ſicut maiori cuꝫ eodē gᵘ reſiᶜ:ſeqꝛ ꝙ
in maiori medio tardius ſibi creſceret reſiª ſi non foret ꝓ/
greſſio iſtiꝰ latiᵗᵘᵈⁱⁿⁱˢ:ꝛ et ꝑ ɔ̄ns in iſto medio maiori eſt maioꝛ
exceſſus decremēti qḋ eēt ſtāte mobili ꝛ mota latitudine
ſupra cremētuꝫ qḋ eēt per motū mobilis ſtāte latitudine
nō mota ꝙ̄ in minori qḋ fuit ꝓbanᵈᵘᵐ:ꝛ per 5ᵃᵐ ɔ̄neꝫ illi ex/
ceſſui decremētum dicte reſiᶜ correſpōdet:ꝙ̄ velociꝰ decreſcat
ſibi reſiª in medio maiori ꝙ̄ minori:ꝛ ꝑ ɔ̄ns in medio ma
iori velociꝰ intēdet motuꝫ ſuū ꝙ̄ in minori.ſeqꝛ ꝙ̄ ɔcluſio.
¶ In oppᵐ ɔ̄nis 4ᵉ ſic arguit̄. Infinite tarde incipit intē ɔtra 4ᵃᵐ
dere motū ſuuꝫ:ꝙ̄ nō itēdet tardius ꝛ tardiꝰ.ɔ̄ña pꝫ ꝛ ans ɔ̄nem.
arguit̄ ſic:ex q̄ illud mobile nō itēdet motū ſuuꝫ niſi ꝑ de/
cremētuꝫ reſiᶜ:ꝛ ſub certo gᵘ incipit cuꝫ ſua reſiª vel certo
gᵘ reſiſtēte itēſiori:ꝛ in infiᵐ tarde incipit reſiª reª ſui de/
creſcere:gradus ifinite tarde incipit itēdē motū ſuuꝫ.ɔ̄ña
pꝫ ꝛ ans arguit̄ ſic:q̄a ifinite tarde incipit moueri vt p̄ius
dēm eſt.ꝙ̄ incipit moueri cuꝫ reſiª infiᵐ modice minori ꝙ̄
eſt ſua poª.aliter.n.certeuelocīr inciperet moueri:ꝙ̄ eſſet dare
certū gᵐ reſiſtētie:ita ꝙ cum itēſiori illa incipit moueri.
Siľr nō eſt aliq̄s gradus illiꝰ latiᵗᵘᵈⁱⁿⁱˢ reſiᶜ q̄n certuꝫ t̄ps erit
anteq̄ꝫ cuꝫ iſto ĝdu mouebit̄:q̄a aliter ifiniteuelocīr inciperet
itēdē motuꝫ ſuū:ꝛ ēt certeuelociter inciperet mouere:q̄a ad
oēꝫ gᵐ itrinſecuꝫ iſtiꝰ latiᵗᵘᵈⁱⁿⁱˢ hꝫ certā ꝓportionē maioris in/
eq̄litatis.Sꝫ ɔ̄ns eſt falſuꝫ:q̄a tunc vt p̄dictū eſt ſubito p̄/
cederet extreᵐ itēſius ꝛ moueret̄ ſine reſiª.pꝫ ꝙ̄ ꝙ incipit
moueri cuꝫ reſiª certo gradu reſiſtētie maiori. Et ꝙ ifini/
te tarde icipit ſua reſiª decreſcē arguit̄ ſic.Motꝰ eius pro
q̄cūqꝫ iſtāti ipediet itēſionē ſui motꝰ:eo ꝙ pro omni iſtāti
mouebit̄ v̄ſus eādē diam v̄ſus quā mouebunt̄ oēs ĝdus
illiꝰ latiᵗᵘᵈⁱⁿⁱˢ:ꝙ̄ nō decreſceret ſibi latitudo niſi rōne motꝰ il/
loꝝ graduū:ſꝫ ifinite tarde incipit q̄libet gradus illiꝰ lati/
tudinis moueri:ꝙ̄ ifinite tarde incipit ſibi reſiª decreſcere.
ɔ̄ña arguit̄:q̄a dato medio aliq̄ in quo ſtaret latitudo extē
ſa:ꝛ q̄libet gradus aliq̄ velocitate moueret̄ aliqualr̄ velo
citer reª mobilis ibi q̄eſcētis inciperet reſiª decreſcē ꝛ ꝑ mo
tū in duplo tardiorē ꝛ in duplo tardius:ꝛ ſic in ifiᵐ.ꝙ̄ ſi ifi/
nite tarde incipit illa latitudo moueri ifinite tarde incipit
reſiª reª illius mobilis decreſcē.¶ Pro huius argᵗⁱ ſolōne 10ᵃ ɔclo
eſt notāda vna ɔcluſio.ſ.ſi per p̄tes ineq̄les medioꝝ aliq̄/
rum eadē latitudo vel ɔſiľes reſiᶜ vniformiter extēdant̄
que latituᵈⁱⁿᵉˢ ꝓgrediant̄ quieſcēte extremo remiſſiori vtri/
uſqꝫ latiᵗᵘᵈⁱⁿⁱˢ ꝛ manētibus illis latitudᵇꝰ vniformiter extēſis
ꝓporᵉ ſicut vna latitudo per maius ſubm alia extēdit̄:ita
velocius ꝓgrediat̄ reª duoꝝ ad extrema itēſiora vel ad
pūcta ad que ſunt extrema itēſiora q̄eſcētiū eq̄ueloꝝ erit
decremētuꝫ reſiᶜ:q̄a ꝓporᵉ ſicut vnū eſt alio minus:ita q̄li/
bet gradus latiᵗᵘᵈⁱⁿⁱˢ reſiᶜ per minus ab extremo itēſiori illiꝰ
ſubiti diſtat. Si ꝙ̄ motꝰ in ea ꝓporᶜ ſit tardioꝛ illiꝰ latiᵗᵘᵈⁱⁿⁱˢ in
medio minori ꝙ̄ in medio maiori:acceſſus graduū illiꝰ la
titudinis in vno medio erit tātꝰ ſicut in alio. Si ꝙ̄ poª aliq̄ ad
pūcta correſpōdētia illoꝝ meᵒʳᵘᵐ poneret̄ in medio minori tar
dius itēderet motū ſuū ꝙ̄ in maiori.ex q̄.n.motꝰ illiꝰ poᶜ eſt
eq̄lis ad pūcta correſpōdētia in vtroqꝫ medio tardiꝰ ſibi cre/
ſceret reſiª in medio maiori ꝙ̄ in minori ſtātibꝰ illis latiᵗᵘᵈᵇꝰ:
ꝙ̄ maioꝛ erit exceſſus decremēti reſiᶜ ſtante poª ſupra cre/
mētuꝫ ſue reſiᶜ:ſi ſtaret latiᵗᵘᵈᵒ in medio maiori ꝙ̄ in mino/
ri.ꝙ̄ ꝑ ɔ̄nē 5ᵃᵐ in medio maiori velociꝰ itēdet̄ motꝰ ſicut in
ɔ̄ne p̄xia p̄cedēte eſt arguituꝫ.Sꝫ in caſu poſito in ɔ̄ne 4ᵃ
velociꝰ ꝓporᵉ maiorabit̄ diſtātia ꝑ quā extēdet̄ illa latiᵗᵘᵈᵒ
ꝙ̄ maiorabit̄ motꝰ illiꝰ latiᵗᵘᵈⁱⁿⁱˢ:ideo ſi mobile ſtaret ꝓ duo/
bus iſtātibꝰ ad eūdē gᵐ reſiᶜ in p̄te t̄pis poſteriori tardius

reª ſui decreſceret reſiª q̃ in inſtãti poꝛi. ꝛ ideo lꝫ inſiᵐ tardiꝰ
incipiat eẽ motꝰ illiꝰ latiᵗᵘᵈ: nõ ſeqꝛ ꝙ infinite tarde incipit
reſiª ibi decreſcẽ: q2 in inſiᵐ modico ſubito incipit ex̃tẽdi il/
la tota latiᵒ. Añs arguiꝛ: q2 cũ motꝰ illiꝰ latiᵗᵘᵈ maioꝛabiꝛ
ad duᵐ pars per quã tũc ex̃tẽdeꝛ illa latitudo ex̃tẽdeꝛ per
ſubꝫ in q̃druplo maius q̃ pꝰus ex̃tẽdereꝛ: q2 in fine cuiuſ/
libet tꝑis ad pñᵐ terminati erit motꝰ illiꝰ latiᵗᵘᵈ velocioꝛ in
duplo q̃ in inſtãti medio eiuſdẽ tꝑis: ex̃q̃ vnifoꝛ intẽdeꝛ a
nõ gradu. ꝛ ſi ſic in triplo plus de iſto medio trãſibit in 2ª
medietate tꝑis q̃ in pª: ꝛ per ꝯñs in fine per in q̃druꝰ ma/
ius ſubm ex̃tẽdeꝛ q̃ in inſtãti medio. Patet ḡ ꝙ velocius
ꝓpoꝛ maioꝛabiꝛ diſtantia ꝑ quã ex̃tẽdeꝛ iſta latitudo q̃
motꝰ illius latiᵗᵘᵈ maioꝛabiꝛ. Et ideo in inſtãti poſterioꝛi ſi
geſceret mobile ad extremũ ſui tardiꝰ reª ſui decreſceret
11ª cõclo reſiª q̃ pꝰus: ꝛ ſic nõ ꝓcedit arᵐ. ¶ Ex h etiã ſeqꝛ ꝙ q̃cũq̃
gradu intrinſeco iſtius latiᵗᵘᵈ incipit. a. velocius intẽdẽ motũ
ſuũ ꝛ velocius moueri: ꝛ tñ ante q̃ocũq̃ inſtãs datũ velo/
cius intẽdẽt infinita pũcta illius motꝰ ſuos q̃. a. ꝛ velociꝰ mo
uebunꝛ. Prima pars pꝫ: q2 a nõ gª incipit. a. ꝛ etiã q̃cũq̃
gradus illiꝰ reſiᵉ intẽdẽ motꝰ ſuos: ꝛ nõ eſt aliq̃s gradus in/
trinſecus illius latiᵗᵘᵈ q̃ñ velocius iº incipit. a. moueri. ḡ q̃/
cũq̃ gª intrinſeco illiꝰ latiᵗᵘᵈ dato velocius incipit. a. intẽdere
moᵐ ſuũ. ꝯña pꝫ: ꝛ añs arguiꝛ ſic. ſi cũ aliq̃ gradu eq̃uelo/
ꝑciſe incipit. a. mouere: ꝛ ad oẽm gᵐ certũ hꝫ certã ꝓpoꝛⁿᵉᵐ
maioꝛis inequalitatis: ḡ incipit moueri a certa ꝓpoꝛᵉ: ḡ nõ infi
nite tarde. ꝯñs falſum: ḡ ꝛ añs eſt falſum. ſeqꝛ ḡ oppoſitũ
añtis q̃ eſt pª pars ꝯnis. Scda pars ſic arᵉ. Quocũq̃ inſtã/
ti dato in illo erit. a. ad aliquẽ certũ gᵐ huius reſiᵉ: ꝛ ꝯtinue
intẽdet motũ ſuũ: ḡ ille gradus mouebiꝛ velocius: eo q2 alr
ꝓtũc nõ intẽderet motũ ſuũ: vt liq̃de pꝫ in ꝯne 5ª. Cũ ḡ
q̃libet gradus illiꝰ latiᵗᵘᵈ vniformiter intẽdet motũ ſuũ: ꝛ
a. tardius ꝛ tardius: ꝛ velociꝰ incipit. a. intẽdere motũ ſuũ
q̃ talis pũctꝰ: ꝛ etiã velocius mouere: ſeqꝛ ꝙ ante illud in/
ſtans velocius intẽdet gradus ad quẽ tũc erit. a. motũ ſuũ
q̃. a. ꝛ iſte gradus ꝛ q̃ſcũq̃ alius vniformiter intẽdet: ꝛ q̃li/
bet gradus intẽſioꝛ velocius intẽdet motũ ſuũ q̃ gradus re
miſſioꝛ: ḡ ante id inſtãs infiniti gradus illiꝰ latitudis velo/
12ª cõclo cius intẽdẽt motꝰ ſuos q̃. a. ḡ ſequiꝛ ꝯcluſio ꝓbãda. ¶ Si
ab extremo medij nõ reſiſtẽtis q̃ñareꝛ latitudo reſiſtẽtie
quieſcẽte extremo remiſſioꝛi: cuius q̃libet gradus vnifoꝛ
a nõ gradu intẽdat motũ ſuũ manẽte illa latitudine ꝯtinue
vniformiter exten ꝛ in eodẽ extremo incipiat poª moti/
ua creſcẽ a nõ gradu que etiã vnifoꝛ creſcat: illa tardius
ꝛ tardius intẽdet motũ ſuũ deductis alijs ĩpedimẽtis ꝛ iu/
uamẽtis extrinſecis. Hec ſic pꝫ: q2 iſta poª intẽdet motũ
ſuũ ꝛ infinite tarde incipit mouere pꝫ: q2 ſi certe velociter
incipiat mouere ꝛ q̃ſcũq̃ gradus huiꝰ reſiᵉ infinite tarde inci/
pit mouere: ſeqꝛ ꝙ quẽcũq̃ gᵐ huius reſiᵉ incipit ꝑcedere.
ꝯñs falſũ: q2 tũc moueret ſine reſiª. ſeqꝛ ḡ ꝙ infinite tarde
incipit mouere: ꝛ per ꝯñs intẽdet motũ ſuũ: ſꝫ nõ vnifoꝛ nec
velocius ꝛ velociꝰ: ḡ intẽdet tardius ꝛ tardiꝰ. ꝯña pꝫ ꝛ añs
ſic arguiꝛ. Si vnifoꝛ intẽdet motũ ſuũ: ḡ cũ a nõ gª inci/
pit motꝰ eius intẽdi: ſeqꝛ ꝙ in triplo plus ꝑtrãſibit in 2ª me/
dietate iſtiꝰ tꝑis q̃ in pª. dẽꝛ ḡ gradus ad quẽ erit in fine:
ꝛ ſeqꝛ ẽt ꝙ iſte gradus vnifoꝛ intẽdet motũ ſuũ a nõ gra
du: ḡ ille gradus in triplo plus ꝑtrãſibit in 2ª medietate q̃
in pª: ḡ in inſtãti medio erit ille gradus ad pũctũ terminãtẽ
4ᵐ totius q̃ ꝑtrãſibit ab iſto gª in toto tꝑe ſui motꝰ: et ſi
ſic in inſtãti medio erũt illa poª ꝛ ille gradus ad eũdẽ pun/
ctũ: ꝛ per ꝯñs in inſtãti medio mouebiꝛ illa cũ eq̃li reſiª
ſicut in fine: ḡ nõ ꝯtinue intẽdet motũ ſuũ. ꝯñs falſum. ſeqꝛ ḡ
ꝙ nõ põt vnifoꝛ intẽdere motũ ſuũ nec velocius ꝛ velo/
cius: q2 ſi ſic cũ a nõ gª incipiat moueri: ſequiꝛ ꝙ plus q̃
triplũ ꝑtrãſibit in 2ª medietate tꝑis ad illud q̃ ꝑtrãſibit
in pª medietate eiuſdẽ tꝑis ſicut argutum fuit in ꝯne 4ª ꝛ
allegata: ꝛ gradus reſiᵉ quẽ hẽbit in fine in triplo plus ꝑ/
trãſibit ꝑciſe in 2ª medietate tꝑis q̃ in pª: ḡ in inſtãti me/
dio erit plus ꝑtrãſitũ ab iſto gradu reſiᵉ q̃ ab iſta poª: et
per ꝯñs in inſtãti medio mouebiꝛ cũ minoꝛi reſiª q̃ ſit gra
dus ille cũ quo mouebiꝛ in fine: ꝛ per ꝯñs in inſtãti medio
mouebiꝛ velocius q̃ in fine: igiꝛ nõ per totũ tꝑs mouebiꝛ
velociusꝙ̃ in fine. ꝯñs falſum. ḡ illud ex̃q̃ ſeqꝛ. ſ. ꝙ velo/
cius ꝛ velocius intẽdet motũ ſuũ. relinquiꝛ ḡ ꝙ tardius et
tardius intẽdeꝛ eius motꝰ: q̃ fuit ꝓbanᵐ. ¶ Cõtra ꝯnẽ pᵃᵐ 3 ꝯnem p̃mam.
põt ſic argui. Sit. b. mediũ nõ reſiſtẽs in quo q̃ñeꝛ parti/
biliter. c. latitudo extremo remiſſioꝛi quieſcẽte: cuiꝰ q̃libet
gradus moueaꝛ vnifoꝛ: cuius extreᵐ moueaꝛ ꝯtinue a ꝓ/
poꝛtione dupla: ꝛ ſe habeat. a. poª nõ variata in poª ad illõ
extreᵐ in ꝓpoꝛtione q̃drupla ꝛ deducanꝛ oĩa alia ĩpedimẽ
ta: ꝛ ſit. a. motũ indiuiſibile q̃titatiue ſicut opꝫ imaginari
in talibꝰ caſibꝰ: tũc imediate poſt hoc. a. mouebiꝛ: q2 ĩme/
diate poſt hoc habebit mediũ reſiſtẽs ſup cuius quẽcũq̃
gᵐ reſiſtẽtie dñabiꝛ: ḡ mouebiꝛ. Añs pꝫ: eo ꝙ ante q̃ocũq̃
inſtãs erit latitudo per certã ꝑtẽ huius medij extenſa. Et
ꝙ. a. nõ incipit mouere arguiꝛ: q2 ſi. a. incipit moueri ipm
incipit moueri a ꝓpoꝛtione q̃drupla vel maioꝛi: q2 nõ eſt
gradus intrinſecus q̃ñ ad illũ habeat maioꝛẽ ꝓpoꝛⁿᵉᵐ q̃ qua/
druplã: ꝛ ad extreᵐ intẽſius ꝓpoꝛᵉᵐ q̃druplã. Cum igiꝛ ex/
tremũ intẽſius ꝯtinue mouebiꝛ a ꝓpoꝛᵉ dupla: ſeqꝛ ꝙ inci
pit ꝑcedere extreᵐ: ꝛ per ꝯñs incipit mouere ſine reſiª. ꝯſe
quẽs falſum. ḡ. ¶ Ideo forte dĩ ꝙ ante q̃ocũq̃ inſtãs infi/
nities quieſcet. a. ꝛ infinities mouebiꝛ: ꝛ ſi ſic non ſeqꝛ ꝙ. a.
ꝑcedet extreᵐ. ¶ Cõtra lꝫ infinities quieſcet per nullũ tꝑs
quieſcet: q2 poſt q̃libet inſtãs imediate mouebitur: eo ꝙ
ante finẽ cuiuſlibet tꝑis futuri erit reſiª per aliq̃ ꝑtẽ illiꝰ
medij. Tũc ſic arguiꝛ. a. ꝛ illud extreᵐ incipiũt ab eodem
pũcto medij mouere: ꝛ q̃ñcũq̃. a. mouebiꝛ ipm mouebiꝛ
in duplo velocius. b. ꝛ per nullũ tꝑs quieſcet: ḡ ꝑcedet ex/
tremũ. ḡ ſeqꝛ ꝯcluſio. ¶ Pro iſto ḡ dĩ ꝙ imaginato ꝙ il/
lud mouẽs ſit indiuiſibile erit motꝰ illius retrogradus: ita
ꝙ multotiẽs eãdẽ ꝑtẽ ꝑtrãſibit: ꝛ tũc nõ ſequiꝛ ꝙ ꝑcedet
extremũ. ſi tñ illud ſubducaꝛ ꝛ ponaꝛ ꝙ nullã partẽ bis
ꝑtranſibit dĩ ꝙ detinebiꝛ ab aliq̃ alio ne incipiat. ꝙ ſi ad/
huc deducaꝛ ꝯcedeꝛ de imaginatiõe ꝙ ſubito ꝑtrãſibit
totũ illõ mediũ: nec eſt illõ in imaginabile: ꝛ tũc eſt cõce/
dẽdũ ꝙ illa mutatio ſubita erit ſine reſiſtẽtia. illud. n. nõ
includit ꝯdictionẽ ſicut eſt de luminoſo agẽte in medio ꝙ
ĩmediate poſt inſtãs applicatiõis aget per certã diſtãtiã.
Nec eſt iſtud ꝯtra ꝯnẽ pᵃᵐ: ꝛ in illa etiã poniꝛ hec ꝑticula
ꝙ motꝰ extremi latitudinis eſt velocioꝛ q̃ eſt gradus mo
tus quo illa poª cum illo extremo ſufficit moueri: nunc. n.
motus vt ꝑargutũ eſt manebit cõtinue vniformis: huiꝰ
tamẽ oppoſitum ponitur in caſu iſto ꝛc̃.

Dicto qualiter manebit motus mobilis q̃ñ eſt ꝓgreſſus latiᵗᵘᵈ in mediũ nõ re/
ſiſtẽs, reſtat ponere ꝯnes aliq̃s q̃ñ mediũ eſt vnifoꝛ dif/
forme ad nõ gᵐ terminatũ a cuius extremo remiſſioꝛi in/
cipit creſcere. a. poª a nõ gª. pro quo poniꝛ pª hec cõcluſio.
¶ Si ſit mediũ vnifoꝛ difforme terminatũ ad nõ gᵐ a pª cõclo
cuius extremo remiſſioꝛi incipit poª mouere creſcẽs vni/
formiter a nõ gª ꝛ mouẽs ꝯtinue ſm ꝓpoꝛⁿᵉᵐ poᵉ ad reſiᵗᵃᵐ
ſibi imediatã: iſta poª ꝯtinue mouebiꝛ vnifoꝛ. Hec ſic de/
mõſtraꝛ: ſit. b. mediũ illõ ad nõ gᵐ terminatũ: ꝛ. a. poª cre
ſcẽs vnifoꝛ a nõ gª: tũc. a. nõ põt intẽdẽ motũ ſuũ nec re
mittere: ḡ ꝯtinue mouebiꝛ vnifoꝛ. ꝯña pꝫ: ꝛ añs arguiꝛ ꝑ
q2 per nullũ tꝑs terminatũ ad pñᵐ põt intẽdere motũ ſuũ
nec remittere: q2 ſi per aliq̃õ tꝑs terminatũ ad pñᵐ intẽdet
motũ ſuum in 2ª medietate illius tꝑis plus ꝑtrãſibit q̃ in
pª: ꝛ etiã q2 mediũ eſt vnifoꝛ difforme velocius ꝛ velo/
cius accreſcet ſibi de reſiª: ꝛ reſiª terminaꝛ ad nõ gᵐ: ḡ reſiª

cum qua mouebit in fine erit plus q̃ dupla ad reſiſtẽtiã quã
hebit in inſtãti medio:ꝛ poª in fine erit in duplo maior ꝑci
ſe q̃ in inſtãti medio:ex q̃ vniforr creſcet.a.nõ gᵘ:g̃ in fine
erit minor ꝓporᵉ poᵉ ad reſiſtẽ q̃ in iſtãti medio.ſic.n.vna
poª ſe hʒ ad ſuã reſiſtẽ ita poª dupla ad duplã reſiſtẽtiã ſe ha-
bebit:ꝛ ſi ſic in fine mouebit tardius q̃ in iſtãti medio:ꝛ
per ꝯñs nõ per totũ tp̃s datũ intẽdet motũ ſuũ.ſeq̃ g̃ ꝙ
per nullũ tp̃s terminatũ ad pñᵐ põt itẽdẽ motũ ſuũ.Nec
per aliqd̃ tp̃s terminatũ ad pñᵐ põt remittere motũ ſuũ:
qa ſi ſic tardius ꝛ tardiꝰ creſcet ſibi reſiſtẽ:g̃ in fine erit reſiſtẽ
nõ in duᵒ maior q̃ in iſtãti medio:qa creſcet a nõ gᵘ ꝛ poª
erit in fine in duplo maior q̃ in inſtãti medio:ex q̃ vniforr
creſcet a nõ gᵘ:g̃ in fine erit maior ꝓporᵉ poᵉ ad ſuã reſiſtẽ
q̃ in inſtãti medio:ꝛ per ꝯñs nõ per totũ illd̃ tp̃s remittet
motũ ſuũ.ſeq̃ g̃ manifeſte ꝙ per nullũ tp̃s terminatũ ad
pñᵐ totiꝰ tp̃is põt intẽdẽ motũ vel remittẽ.¶ Sʒ aliter ꝓ-
bat ꝙ per nullũ tp̃s põt intẽdẽ motũ vel remittẽ:qa ſi ſic
ſit illd̃ inſtãs.c.in quo incipiet intẽdẽ motũ ſuũ vel remit
tere:ꝛ ſit.f.ꝓporᵉ ex qua vniforr mouebit ꝯtinue ante.c.ꝛ
ſeq̃ ꝙ ꝯtiᵉ ante in.f.ꝓporᵉ tardiꝰ creſcet reſiſtẽ q̃ eius poª:
ex q̃.n.motꝰ erit vniforᵐ reſiſtẽ vniforr creſcet ſic̃ iſta poª ſic
ꝓbatuʒ eſt ꝯne.17.de regulis cõibꝰ de motu locali in pñª
poſitis:g̃ ſi.a.intẽdet motũ ſuũ velociꝰ creſcet ſua reſiſtẽ q̃
pus:ex q̃ mediũ eſt vniforr difforme:ꝛ poª equeueloꝛ ꝑciſe
creſcet ſic̃ pus imediate ante iſtud inſtãs:g̃ imediate poſt
iᵒ inſtãs nõ in iſta ꝓporᵉ velociꝰ creſcet poª.a.q̃ ſua reſiſtẽ:ꝛ
per falſigraphuʒ iter.a.ꝛ ſuã reſiſtẽ imediate poſt h̄ inſtãs
erit maior q̃.f.ꝓportio.a.ad ſuã reſiſtẽ:qa per euʒ motꝰ in-
tẽdet:g̃ nõ in qua ꝓporᵉ erit poª maior ſua reſiſtẽ in ea velo
cius creſcet:ꝛ per ꝯñs tardius ꝓporr itẽdet.a.q̃ ſua reſiſtẽ:
ꝛ per ꝯñs tunc minorabit ꝓporᵉ ad ſuã reſiſtẽ:ꝛ ſi ſic motꝰ
eius remittet ꝛ nõ intẽdet.Si g̃ tunc dĩ ꝙ incipiet motꝰ
eius remitti:g̃ imediate poſt iᵒ inſtãs tardius creſcet reſiſtẽ
q̃ prius ꝛ poª ꝯtinue vniforr creſcet:g̃ plus q̃ in.f.ꝓporᵉ
tũc creſcet poª velocius ſua reſiſtẽ:ꝛ per datũ ꝓporᵉ iter.a.ꝛ
ſuã reſiſtẽ tũc erit minor q̃ ſit.f.ꝓportio:qa motꝰ remittet:
g̃ tunc velociꝰ ꝓporr creſcet.a.q̃ reſiſtẽ ſua:ꝛ per ꝯñs motꝰ
a.tũc intẽdet ꝛ nõ remittet.ſeq̃ g̃ ꝙ ſi motꝰ aliqñ itẽdet
ꝙ tunc remittet ꝛ ecõtra:qd̃ eſt ipoſſe.ops̃ g̃ ꝙ idẽ mobile
2ª ꝯclo ꝯtinue vniforr moueat.¶ Si poª incipiẽs motũ in extre-
mo remiſſiori medij vniforr difformis ad gᵐ vel ad nõ gᵐ
terminati per vniforᵉ creᵐ ſic poᵉ vniforr moueat ꝑ ali-
qd̃ tp̃s vel incipiat vniforr moueri nõ facta aliũde muta-
tione iſta poª cõtiᵉ mouebit vniforr.Et ꝑ arguit h̄ de me-
dio terminato ad gᵐ in extremo remiſſiori:qa ſi per aliqd̃
tp̃s vniforr mouebit ſua reſiſtẽ vniformiter creſcet.ſit g̃ ꝓ-
portio ex qua mouebit.f.ꝛ ſeq̃ ꝙ in.f.ꝓporᵉ velociꝰ cre-
ſcet ſua poª q̃ ſua reſiſtẽ per tp̃s per qd̃ vniformiter moue-
bit.Si g̃ aliqñ deſinet moueri vniforr:ſit.d.iᵒ iſtãs in quo
incipiet itẽdẽ motũ ſuũ vel remittẽ:ꝛ ſeq̃ vt pus ꝙ ſi in-
tẽdet ꝙ velociꝰ creſcet tũc ſibi reſiſtẽ q̃ pus:g̃ nõ in.f.ꝓporᵉ
tũc velocius creſcet poª q̃ reſiſtẽ:ſʒ ſi intẽdet eius motꝰ erit
ꝓporᵉ maior q̃.f.ꝓporᵉ poᵉ ad reſiſtẽ:g̃ nõ in ea ꝓporᵉ cre
ſcet poª velociꝰ ſua reſiſtẽ in qua ſua reſiſtẽ erit minor:g̃ motꝰ
ſuus remittet ꝛ nõ intẽdet.Si dicat ꝙ motꝰ ſuus tũc inci-
piet remitti:tũc incipiet poª creſcẽ plus q̃ in.f.ꝓporᵉ velo
cius ſua reſiſtẽtia:ꝛ ſi motꝰ remitteret incipet eẽ minor ꝓ-
portio q̃ eſt ꝓporᵉ poᵉ ad reſiſtẽ:g̃ tũc incipiet poª velocius
ꝓporr creſcẽ q̃ ſua reſiſtẽ:ꝛ per ꝯñs tũc incipiet motꝰ itẽdi
ꝛ nõ remitti.Seq̃ g̃ iſta pars.Et alia arguit.ſ.de medio
terminato ad nõ gᵐ cõſilr oĩno.Uel ſic.Si meᵐ terminet
ad nõ gᵐ:ꝛ per aliqd̃ tp̃s terminatũ ad pñᵐ motꝰ manebit
vniꝰ:g̃ in aliq̃ inſtãti erit ad pũctũ itrinſecũ poſt q̃ vnifor
miter mouebit per aliqd̃ tp̃s:g̃ ꝯtinue poſt illd̃ inſtãs mo
3ª ꝯclo uebit vniformiter:vt ꝓbatur in alia pticula.¶ Si ab ex-
tremo remiſſiori medij vniformiter difformis icipiat po
tẽtia aliq̃ eque ꝓporr creſcẽ ſic ſua reſiſtẽtia per eiꝰ motũ:
que potẽtia ꝯtinue vniformiter creſcet:motꝰ eiꝰ manebit
ꝯtinue vniformis:qa ſi nõ:ſit.a.hꝰ potẽtia:ꝛ.b.ſuũ meᵐ:ꝛ
ſit.f.ꝓportio in qua potẽtia.a.eſt maior ſua reſiſtẽtia:ꝛ in
eadẽ ꝓporᵉ creſcat velociꝰ:ꝛ creſcat.a.ꝯtinue vniformiter,
deductis alijs variatiõibꝰ:ꝛ ſit.c.potẽtia eq̃lis.a.eq̃ueloci
ter ꝯtinue creſcẽs ſic̃.a.ꝛ ſit.d.reſiſtẽtia ſub gᵘ ad quẽ ter-
minat.b.in extremo ſuo remiſſiori:et creſcat.d.eq̃ueloci-
ter ꝯtinue ſic̃ nũc incipit reſiſtẽtia.a.in.b.vniformiter.vʒ.
in.f.ꝓporᵉ tardius q̃.c.vel.a.ꝛ ſeq̃ ꝙ.c.d.eque ꝓporr ꝯti-
nue creſcẽt:qa.d.eſt in.f.ꝓporᵉ minus.c.ꝛ in.f.ꝓporᵉ cõti-
nue tardiꝰ creſcet q̃.c.g̃ ꝯtinue manebit in.f.ꝓporᵉ minus
c.ꝛ ſi ſic ꝓporᵉ.c.ad.d.ꝯtinue manebit tãta ſic̃ nũc:ꝛ ꝑ ꝯñs
c.mouebit vniformiter:ꝛ.a.cõtinue eq̃uelociter mouebit
cũ.c.g̃.a.ꝯtinue mouebit vniformiter.Añs pʒ:qa ſi.a.itẽ-
det motũ ſuũ velociꝰ ꝛ velociꝰ itẽdet eius reſiſtẽtia:ꝛ eq̃ue
lociter incipit reᵐ ſui creſcẽ reſiſtẽtia ſicut.d.incipit reᵐ.c.g̃
velociꝰ creſcet reſiſtẽtia reᵐ.a.q̃ reᵐ.c.ꝛ in pñᵒ reſiſtẽtie ſue
ſunt eq̃les:g̃ reſiſtẽtia.a.fiet maior q̃ reſiſtẽtia.c.ꝛ potẽtie
ſemꝑ erũt eq̃les:g̃.a.mouebit tardius.c.ꝛ.c.vniformiter:
g̃.a.remittet motũ ſuũ ꝛ nõ itẽdet.Cõſilr arguit.ſi dicat
ꝙ.a.remittet motũ ſuum:qa tardius creſcet ſua reſiſtẽtia
q̃ reſiſtẽtia.c.ꝛ per ꝯñs motꝰ incipit itẽdi ꝛ nõ remitti.ſe-
quit g̃ ꝙ ſi motus incipiat itẽdi ꝙ incipit remitti ꝛ eᵓ:qd̃
eſt ipoſſe.g̃ motꝰ eius nũc nõ incipit intẽdi nec remitti:ꝛ ſi
ſic per ꝓximã nunq̃ intẽdet nec remittet:ꝛ per ꝯñs motꝰ
ꝯtinue manebit vniformis:qd̃ fuit ꝓbanᵐ.¶ Si ab vno 4ª ꝯclo
pũcto medij vniformiter difformis incipiat aliq̃ potentia
per vniforᵉ creᵐ ſue potẽtie vniformiter mouere que vni-
formiter ꝯtinue mouebit:ꝛ potẽtia equalis ꝯſilr oĩno cre
ſcẽs icipiat a pũcto remiſſiori mouere in eodẽ medio iſta
potẽtia ꝯtinue remittet motũ ſuũ:ꝛ ſi moueret a puncto
cui corrñdet maior reſiſtẽtia,iª ꝯtinue intẽdet motũ ſuũ.
Prima pars ſic arguit.Sit.a.illa potẽtia que cõtinue mo
uebit vniforr:ꝛ ſit.b.poª ſibi eq̃lis icipiẽs vbi eſt reſiſtẽ mi-
nor q̃ ſꝑ maneat eq̃lis.a.poᵉ:ꝛ arr ſic.a.ꝯtiᵉ mouebit vniᵉ:g̃
eq̃proporr creſcet ſua reſiſtẽ ſicut ſua poª:ꝛ poª.b.eq̃proporr
creſcet ſic̃ poª.a.qꝛ iᵉ ſꝑ erũt eq̃les:g̃ reſiſtẽ.a.eq̃proporr cre-
ſcet ſic̃.b.ꝯtiᵉ:ꝛ reſiſtẽ.b.velociꝰ ꝓporr ꝯtiᵉ creſcet q̃ reſiſtẽ.a.g̃
reſiſtẽ.b.velociꝰ ꝓporr ꝯtiᵉ creſcet q̃ ſua poª:ꝛ per ꝯñs motꝰ
eiꝰ ꝯtiᵉ remittet.Añs pʒ.vʒ.ꝙ velociꝰ ꝓporr creſcet reſiſtẽ.b.
q̃ reſiſtẽ.a.qa.b.nunq̃ attinget.a.ꝛ ꝑ ꝯñs ꝯtiᵉ mouebit cum
reſiſtẽ minori q̃.a.ꝛ velociꝰ q̃.a.ꝛ ſi ſic ſua reſiſtẽ ꝯtiᵉ velocius
creſcet q̃ reſiſtẽ.a.g̃ velocius ꝓporr itẽdet q̃ reſiſtẽ.a.Oẽs ꝯᵉ
itermedie patẽt:ꝛ añs arr.ſ.ꝙ.b.nunq̃ attinget.a.qa ſi ſic
b.ptrãſiret in iſto tp̃e toᵐ qd̃.a.ptrãſiret ꝛ aliqd plus.ꝯñs
falſum:qa poª eadẽ in minori tp̃e põt ptrãſire ptẽ q̃ totũ
cuiꝰ eſt pars.¶ Itẽ ſi.b.attinget.a.ſit iſtãs.c.in q̃ attinget
a.ꝛ decreſcãt eq̃ueloꝛ ſic̃ pus itẽdebant mõ vſus extreᵐ re-
miſſius eᵓ:ꝛ ſit.d.inſtãs in q̃.a.erit eᵓ in via diminuᵒⁿⁱˢ tãte
poᵉ ſic̃ nũc eſt.Et ſeq̃ ex q̃ ꝯſilr diminuet ſic̃ pus itẽdebat
ꝙ in via remiſſionis tãtũ ptrãſibit ſic̃ in via itenᵒ ꝛ ẽt.b.ꝛ
ſi ſic plus in via diminuᵒⁿⁱˢ ptrãſiret.b.q̃.a.ꝯñs falſum:qa
icipiẽt ab eodẽ pũcto remittẽ moᵘ ſuos:ꝛ ꝯtiᵉ manebũt eq̃
lis poᵉ.ſeq̃ g̃ ꝙ.b.nõ attiget.a.ꝛ ꝑ ꝯñs.b.vt pus remittet
moᵐ ſuũ.pʒ g̃ pª pars ꝯnis.Et 2ª ſic arr.moueat vt pus.a.b.
vniforr:ꝛ ponat.b.ꝯtiᵉ eq̃lis poᵉ ipi.a.ad pũctũ magis reſi
ſtẽtẽ:ꝛ ſeq̃ vt pus ꝙ.a.nunq̃ attinget.b.g̃.b.ꝯtiᵉ mouebit
tardiꝰ q̃.a.Et ſi ſic ſua reſiſtẽtia tardiꝰ ꝯtinue creſcet q̃ re
ſiſtẽtia.a.ꝛ ſemꝑ erit reſiſtẽ.b.maior q̃ reſiſtẽ.a.g̃ tardius ꝓ-
portionabilr ꝯtinue creſcet reſiſtẽtia.b.q̃ reſiſtẽ.a.ꝛ reſiſtẽ.a.
eque ꝓportionabilr creſcet ſicut.b.ex q̃ motus.a.manebit
vniforᵐ ꝛ.b.erit cõtinue eq̃lis:g̃ velocius ꝓporr creſcet.b.
ꝯtinue q̃ ſua reſiſtẽ:ꝛ per ꝯñs motus eius ꝯtinue intẽdetur.

¶ Ex his

5ª ʒ ¶ Ex his infert᷑ ꝙ ſi in medio vniforᷣ difformi terminato ad nõ gᵐ icipiat poᵃ creſcere a nõ gᵒ vniᷣ ꝯtinue creſcẽs: ⁊ ad aliquẽ punctũ intrinſecũ incipet aliq̃ poᵃ creſcere a nõ gradu vniᷣ ſicut aᵃ: ipſa ꝯtinue intẽdet motũ ſuũ. icipiat. n. a. moueri in extreᵒ ⁊ ponat᷑. b. icipe creſcere ⁊ creſcat vniᷣ ſicut. a. ⁊ ponat᷑. b. ad aliquẽ pũctũ intriſecũ: quo poſito arᷣ ꝙ. b. ꝯtinue intẽdet motũ ſuũ. ſ. q̃cũqꝫ mouebit᷑: q2. b. ꝯtiᵉ mouebit᷑ cũ reſiᵃ maiori. a. ⁊ ſemꝑ erit eq̃lis poᵃ cũ. a. cq̃ueᷣ creſcẽs: ḡ per ꝓximã cũ. a. ꝯtiᵉ mouebit᷑ vniforᷣ. b. intẽdet motũ ſuũ. Añs pꝫ: q2. a. nõ deueniet ad. b. anteq̃. b. moue bit᷑: q2 ſi ſic remittet motũ ſuum ad nõ gᵐ: q2. b. mouebit᷑ q̃cũqꝫ hẽbit ppor^{ne} maioris īeq̃litatis ad reſi^{am} ſibi ime diatã poſtq̃. b. icepit motũ deueniet ad. b. ſicut argutũ
6ª ʒ fuit ꝯne ꝓria: ḡ. b. cõtinue ꝓcedet. a. ¶ Si ab extremo re miſſiori medij vniᷣ difformis creſcãt 2ᵉ poᵉ vniᷣ a nõ ḡdu vna aᵃ velociᵘ: poᵃ velociᵘ creſcẽs in minori ppor^{ne} velo cius mouebit᷑ q̃ ſit ppor^{e} in q̃ velociᵘ creſcet maior poᵃ. Ponat᷑. n. ꝙ. a. poᵃ in. f. ppor^{ne} velociᵘ creſcat q̃. b. ⁊ arᷣ ꝙ nõ in. f. ppor^{ne} velociᵘ. a. mouebit᷑ q̃. b. q2 ſi ſic in. f. ppor^{ne} velociᵘ creſcet reſiᵃ reⁱ. a. q̃ reⁱ. b. q2 mediũ eſt vniᷣ diffor: ḡ cũ a nõ gᵒ incipiãt iſte reſiᵉ creſcere: ſeq̃t᷑ ꝙ in. f. ppor^{ne} erit ꝯtinue reſiᵃ. a. maior q̃ reſiᵃ. b. ⁊ poᵃ. a. ſiĺr erit cõtinue in. f. ppor^{ne} maior poᵃ. b. ḡ tãta erit cõtinue ppor^{e}. a. ad. b. ſicut reſiᵃ. a. ad reſi^{am}. b. ḡ ꝑmutatiꝫ ſicut. a. ſe hꝫ ad ſuã reſi ſtentiã: ita ꝯtinue ſe hẽbit. b. ad ſuã reſi^{am}: ⁊ ꝑ ꝯñs eque ꝓciſe mouebit᷑. a. ſicut. b. ꝯñs fl'ꝫ. Conſiĺr argᷣ ꝙ. a. nõ mo uebit᷑ velociᵘ. b. in maiori ppor^{ne} q̃ eſt. f. q2 tunc ſua reſiᵃ ſemꝑ eſſet in maiori ppor^{ne} q̃ in. f. maior reſiᵃ. b. ⁊ poᵃ. a. ſoluꝫ erit in. f. ꝓportiõe maior poᵃ. b. ḡ mior tũc erit ppor tio. a. ad ſuã reſi^{am} q̃. b. ad ſuã: ḡ. b. mouebit᷑ velociᵘ. a. ꝯñs
7ª ʒ falſuꝫ: ſeq̃t᷑ ḡ ꝯclo. ¶ Si vna poᵃ creſcat a nõ gᵒ vniforᷣ in duᵒ velociᵘ alia in hꝫ meᵒ vniᷣ difformi terminato ad non gᵐ: quaꝝ minor mouebit᷑ a ꝓportiõe duᵃ: maior mouebit᷑ plus q̃ in ſexq̃ꝫᵒ veloᵘ minori ſed nõ in ſexq̃ꝫᵒ veloᵘ. ſit. n. a. maior ⁊. b. minor: ⁊ arᷣ ſic. Si. a. mouebit᷑ in ſexq̃ꝫᵒ velo cius q̃. b. ꝓciſe: ḡ reſiᵃ ſua ꝯtiᵉ erit in ſexq̃ꝫᵒ maior reſiᵃ. b. ⁊ b. ſe hẽbit ꝯtinue ad ſuã reſi^{aꝫ} ꝓpriã in ꝓportiõe duᵃ: ḡ. b. ad reſi^{am}. a. erit ꝯtinue ppor^{e} ſexq̃altera ⁊. a. ꝯtinue ſe ha bebit ad. b. in ꝓportiõe duᵃ: ḡ ad reſi^{am} ſuã hẽbit ppor^{nem} cõpoſitã ex duᵒ ⁊ ſexq̃altera: que ꝯſtituũt ppor^{nem} triplaꝫ: eo ꝙ ppor^{e}. a. ad ſuã reſi^{am} cõponet᷑ ex ꝓportiõe. a. ad. b. ⁊ ex ꝓportiõe. b. ad reſi^{am}. a. Sed ppor^{e} tripla eſt maior q̃ ſexq̃ꝫᵒ ad duplaꝫ: q2 ꝯtinet duplaꝫ ⁊ ſexq̃alterã q̃ ſexq̃al tera eſt maior q̃ 3ᵃ ꝑs ppor^{nis} duple vt ꝯſtat: ḡ ſi. a. moue bit᷑ ꝓciſe in ſexq̃ꝫᵒ velocius. b. ſeq̃t᷑ ꝙ mouebit᷑ plus q̃ in ſexq̃ꝫᵒ velociᵘ. b. qḋ fuit ꝓbãduꝫ. ¶ Idẽ eſt arᵐ ſi dĩ ꝙ. a. nõ mouebit᷑ in ſexq̃ꝫᵒ velociᵘ. b. q2 tũc poᵃ. b. eẽt maior q̃ ſexq̃altera ad reſi^{am}. a. ⁊ per ꝯñs ppor^{e}. a. ad ſuã reſi^{am} eſt maior q̃ tripla: ⁊ ſi ſic. a. mouebit᷑ plus q̃ in ſexq̃ꝫᵒ velociᵘ b. pꝫ ḡ pᵃ ꝑs ꝯnis. Et 2ᵃ ſic arᷣ. Si. a. mouebit᷑ in ſexq̃alte ro velocius. b. ḡ in ſexq̃altero plus ꝑtrãſibit: ⁊ per ꝯñs ſua reſiᵃ erit in ſexq̃altero maior q̃ reſiᵃ. b. ⁊ ſi ſic. b. ſe hẽbit ad reſi^{am}. a. in ꝓportiõe duᵒ ſexq̃ꝫᵃ ꝓciſe: eo ꝙ. b. ad ſuã re ſiſtentiã erit ꝓciſe dupla ppor^{e}. ſed. a. ſe hẽbit ꝯtinue ad. b. in ꝓportiõe duᵃ: ḡ ppor^{e}. a. ad ſuã reſi^{am} cõponet᷑ ꝯtinue ex ꝓportiõe duᵃ ⁊ ex ꝓportiõe ſexq̃ꝫᵃ: ſꝫ ſexq̃ꝫᵃ nõ eſt me dietas duple ppor^{nis} vt notũ eſt: ḡ. a. nõ mouebit᷑ in ſexq̃ altero velociᵘ. b. nec plus q̃ in ſexq̃altero velociᵘ. b. ḡ a for tiori mouebit᷑ velociᵘ q̃. b. aliq̃ ppor^{ne} iter ſexq̃alteram ⁊ ſexq̃ꝫ^{am}: que tñ ſit iſta maius reg̃reret ſtudiũ q̃ iduceret õ
8ª ʒ ꝓfectu. ¶ Si tñ due poᵉ ineq̃les creſcãt vniᷣ a nõ gᵒ in hꝫ meᵒ vniᷣ difformi terminato ad nõ gᵐ: quaꝝ vna in q̃druᵒ alia velocius creſcet: ⁊ mior mouet᷑ a ꝓportiõe duᵃ: maior ꝯtinue mouebit᷑ a ꝓportiõe in dubio maiori q̃ minor. Et ſi mior creſcãt ita ꝙ moueat᷑ ꝯtinue a ꝓportiõe q̃druᵃ ⁊ alia in octuplo velociᵘ ea ꝯtinue creſcat iſta maior ꝯtinue mouebit᷑ in duᵒ velociᵘ minori: ⁊ ſic vĺr ſi ppor^{e} in q̃ vna creſcit alia velociᵘ excedat ppor^{nem} ex q̃ mior moᵘ per ꝓ portionẽ duplã maior ꝯtiue in duᵒ velociᵘ mouebit᷑ q̃ mi nor. Prio arᷣ pᵃ ꝑs. Sit. n. a. in q̃druᵒ velociᵘ creſcẽs q̃. b. ⁊ moueat᷑. b. a ppor^{ne} dupla ꝯtiᵉ: ⁊ det᷑ inſtãs in q̃ erit aliᵘ poᵃ. ſ. vt 2ᵒ g̃ra arᵈ. ⁊ ſeq̃t᷑ ꝙ ſua reſiᵃ tũc erit vt vnũ. ſi ḡ. a. nõ mouebit᷑ in duᵒ velociᵘ. b. ſua reſiᵃ nõ erit duᵒ ad reſi^{aꝫ} b. ⁊ per ꝯñs reſiᵃ. a. erit minor q̃ 2ᵒ: ⁊ poᵃ tũc erit vt octo: q2 in q̃druᵒ velociᵘ creſcet q̃. b. ḡ ppor^{e}. a. ad ſuã reſi^{am} tunc erit maior q̃ q̃drupla: ḡ tũc plus q̃ in duᵒ velocius moue bit᷑. a. ipſo. b. ⁊ nõ tardiᵘ q̃ in duᵒ. Si det᷑ ḡ ꝙ. a. mouebit᷑ plus q̃ in duᵒ velociᵘ. b. ḡ ſua reſiᵃ erit maior q̃ dupla ad reſi^{am}. b. ⁊ ſi ſic reſiᵃ. a. tũc erit maior q̃ 2ᵒ: ⁊ per ꝯñs. a. non mouebit᷑ a ppor^{ne} q̃drupla: ⁊ ſi ſic. a. non mouebit᷑ in duᵒ velociᵘ. b. ſeq̃t᷑ ḡ ꝙ ſi. a. moueret᷑ plus q̃ in duᵒ velociᵘ. b. ꝙ nõ mouebit᷑ in duᵒ veloᵘ: ⁊ ſi tardiᵘ q̃ in duᵒ veloᵘ: ſeq̃t᷑ ꝙ plus q̃ in duᵒ velociᵘ. ꝯñs fl'ꝫ. reliq̃t᷑ ḡ ꝙ totũ mouebit᷑ in duᵒ velociᵘ. Cõſiĺr arᷣ. vbi minor poᵃ moueat᷑ a ppor^{ne} q̃drupla ⁊ maior creſcat ea in q̃druᵒ velociᵘ: q2 dato inſtã ti in quo minor erit vt 2ᵒ: ſeq̃t᷑ ꝙ ſua reſiᵃ erit vt medietas vnitatis: tũc ſi. a. nõ mouebit᷑ in duᵒ velociᵘ. b. ſed tardiᵘ q̃ in duᵒ velocius: ḡ ſua reſiᵃ nõ erit dupla ad reſi^{am}. b. ḡ iſta eſt minor q̃ eſt vnum ⁊ poᵃ erit vt. 16. vt pꝫ: ḡ maior tunc erit ppor^{e}. a. ad ſuã reſi^{am} q̃ ſexdecupla: ⁊ ppor^{e}. b. ad ſuã reſi^{am} erit q̃drupla: ḡ. a. mouebit᷑ plus q̃ in duᵒ velociᵘ. b. ⁊ nõ tardiᵘ q̃ in duᵒ veloᵘ. Cõſiĺr arᷣ ꝙ nõ mouebit᷑ plus q̃ in duᵒ velociᵘ: q2 tũc ſua reſiᵃ erit maior q̃ vnũ: ḡ nõ mo uebit᷑ a ꝓportiõe ſexdecupla: ⁊ per ꝯñs nõ mouebitur in duᵒ velociᵘ. b. ſeq̃t᷑ ḡ ꝙ ſolũ mouebit᷑ in duᵒ velociᵘ ipſo. b. ¶ Nũc ḡ ad ꝯnem illã arᷣ vĺr ſic. Moueat᷑. b. ab aliq̃. ꝓ portiõe que ſit. c. ⁊ creſcat. a. velociᵘ q̃. b. ita ꝙ ppor^{e} cre mẽti. a. ad creᵐ. b. excedat ppor^{nem} ex qua. a. mouebit᷑ per ppor^{nem} duplaꝫ: q̃ ppor^{e} ſit. d. ⁊ argᷣ ſic. a. in. d. ppor^{ne} ꝯtiᵉ velociᵘ creſcet q̃. b. ḡ. a. cõtinue ſe hẽbit ad. b. in. d. ppor^{ne}: eo ꝙ vtrũqꝫ creſcet a nõ gᵒ ⁊. b. ad ſuã reſi^{am} hẽbit. c. ꝓpor tionẽ: ḡ. a. hẽbit ad reſiſtẽtiam. b. ppor^{nem} cõpoſitã ex. d. c. ꝓportionibᵘ ⁊. d. ꝯtinet. c. ⁊ ppor^{nem} duplaꝫ vltra: ḡ ppor^{e}. a. ad reſiſtẽtiã. b. ꝯtinet duas. c. ppor^{nes} ⁊ vnã ꝓportioneꝫ duplã. Sꝫ ppor^{e}. a. ad reſiſtentiã duplã ad reſiſtentiaꝫ. b. erit minor q̃ ppor^{e}. a. ad reſiſtẽtiã. b. per ppor^{nem} duplaꝫ: eo ꝙ tota ppor^{e} cõpoſita ex duabᵘ excedit vnã ꝑ alteraꝫ: ḡ ppor^{e}. a. ad reſiſtentiã duplaꝫ ad reſiſtẽtiam. b. ꝯtinebit ꝓciſe duas. c. ppor^{nes}: ⁊ per ꝯñs in duᵒ velocius ꝓciſe ſuffi ciet. a. mouere cũ reſiᵃ dupla ad reſi^{am} cũ q̃ mouebit᷑. b. q̃ b. cũ iᵃ reſiᵃ ſubdupla. Si ḡ. a. nõ mouebit᷑ in duᵒ velocius b. ſꝫ tardiᵘ q̃ in duᵒ velociᵘ: ſeq̃t᷑ ꝙ ſua reſiᵃ nõ erit dupla ad reſi^{am}. b. ⁊ per ꝯñs mouebit᷑ plus q̃ in duᵒ velociᵘ ipſo b. ⁊ nõ tardius q̃ in duplo velocius. Et ſi mouebit᷑ plus q̃ in duplo velocius ipſo. b. ſua reſiſtẽtia erit maior q̃ dupla ad reſiſtentiã. b. ḡ nõ mouebit᷑ in duplo velociᵘ. b. ſed tar dius q̃ in duplo velocius. Ex hoc ḡ ꝙ ponit᷑. a. moueri tar dius q̃ in duplo velociᵘ. b. ſeq̃t᷑ ꝙ mouebit᷑ plus q̃ in duᵒ velocius ⁊ ecõtra: neutra ḡ pars põt poni: relinq̃t᷑ ḡ ꝙ. a. ſoluꝫ mouebit᷑ in duplo velocius. b. ⁊ ſic ſeq̃t᷑ ꝯclo gnãĺr.
¶ Si ſint duo media inequalia vniforᷣ difformia eadem latitudine terminata ad nõ gradũ in quoꝝ vtroqꝫ creſcat potẽtia vniᷣ a nõ gᵒ ⁊ ppor^{r} ſic vnũ mediũ eſt alio minᵘ: 9ª ʒ ita potẽtia mouẽs in minori velociᵘ creſcat: ille poᵉ in illis duobᵘ medijs equeᷣ ꝯtinue mouebunt᷑. Sit enim. f. ppor^{e} medioꝝ ⁊ ẽt cremẽti potẽtiaꝝ: ⁊ ſit. a. poᵃ velociᵘ creſcens ⁊ ſit. b. tardius iᵃ creſcens ⁊ ſit. c. mediũ minᵘ in quo. a. mo uetur ⁊. d. medium maius in quo. b. moueat᷑: tunc ſicut aliq̃ puncta. d. plus diſtant ab extremo remiſſiori: ita illis cor rñdent gradus intẽſiores reſiᵉ: ex quo meᵐ eſt vniforᷣ dif

forme terminatū ad nō gm ⁊ ad oīa pūcta correſpōdētia.c.d. ſunt reſi. eq̄les:ḡ ſicut.d.eſt mai⁹.c.ita quilʒ punct⁹ ei⁹ per min⁹ diſtat a nō g. reſi. q̄ʒ punct⁹ in.c.equalr diſtās ab extremo remiſſiori ſic diſtat a non g.: ḡ ad cēm punctū.c.eſt reſi. maior in.f.ppor.ne q̄ʒ ad punctuʒ.d.eq̄lr ab extre. remiſſiori diſtātē ⁊.a.po. ɔtī. erit in.f.ppor.ne maior q̄ʒ.b.q: a.b.creſcēt vni. a nō g.:⁊.a.in.f.ppor.ne velocius creſcet q̄ʒ b.ḡ.a.ɔtinue mouebiť eque. ſicut.b.ɔña pʒ: q: ſi.a.mouebiť veloci⁹ q̄ʒ.b.plus ptrāſibit q̄ʒ.b.⁊ per ɔñs mouebiť cū reſi. ſe hñte ad reſi.ā.b.in maiori ppor.ne q̄ʒ in.f. q: ad puncta eq̄lr diſtātia eſt.f.ppor. inter reſi.am: ſed po.a.ɔtinue ſe hēbit ad po.ā.b.in.f.ppor.ne:ḡ minor tūc erit ppor.a.ad ſuā reſi.am q̄ʒ.b.ad ſuā per ɔñeʒ 27am qnti elemētoꝝ Euclidis:ḡ.a.nō mouebiť veloci⁹.b. Nec pōt poni φ.a. mouebiť tardi⁹ q̄ʒ.b.q: ſi ſic tunc min⁹ ptrāſibit q̄ʒ.b. ḡ ſua reſi. nō erit in.f.ppor.ne maior q̄ʒ reſi.b.⁊ po.a. ſemp erit in.f. ppor.ne maior po.b.ḡ maior tūc erit ppor.a.ad ſuā reſi.ā q̄ʒ.b.ad ſuā:⁊ per ɔñs.a.tūc nō mouebiť tardi⁹.b.ſequiť ḡ φ.a.nō mouebiť tardi⁹.b.nec veloci⁹: ſʒ pciſe eque. cū.b.

10 ʒ ⁋ Si ab extremo remiſſiori mediȷ vni. difformis terminati ad nō gm icipiat po. moueri creſcēs a nō g. ɔtī. velocius ⁊ velocius ipſa ɔtinue intēdet motū ſuū. Et ſi ɔtī. tardius ⁊ tardi⁹ creſcet ɔtinue remittet motū ſuū. Pria ps ſic arguiť. Cz.n.intēdet pbať: q: ſit.a.hō po. que ɔtinue velocius ⁊ veloci⁹ intēdať: tūc ifinite tarde icipit intēdi vel certe velociter. Si ifinite tarde:ḡ ifinite tarde incipit moueri. ɔña pʒ: q: ſi certe. incipiat moueri ⁊ mediū eſt vni. difforme: ſeqť φ certe. icipit acqrere de reſi. ⁊ infi.te tarde incipit acqrere de po. ⁊ vtrūqʒ icipit a nō g.:ḡ maior incipit eſſe reſi. q̄ʒ po.:⁊ per ɔñs icipit moueri a ppor.ne minoris ineq̄litatis qd̄ eſt falſuʒ. Si ḡ infi.te tarde incipit creſcē: ſeqť φ infi.te tarde icipit mouere:⁊ per ɔñs intēdet motuʒ ſuū per aliqd̄ tps. Si ēt certe. icipiat creſcere: ſequiť φ incipiat intēdere motū ſuū: q: capiať gdus a quo icipit ei⁹ po. intēdi ⁊ intēdať.b.vni. a nō g. mediante iſto g.:⁊ ſeqť φ quocūqʒ inſtāti dato in illo mouebiť.a. in aliq̄ certa pportiōe veloci⁹.b.ex quo veloci⁹ creſcet q̄ʒ.b. ⁊ in nulla pportiōe velocius incipit.a.moueri q̄ʒ.b.q: ſi ſic in tanta pportiōe incipet ſua reſi. eſſe maior q̄ʒ reſi.b.⁊ in nulla pportiōe incipit.a.eſſe maioris potētie q̄ʒ.b. quia in illa pportiōe velocius incipit creſcere q̄ʒ.b. ḡ ſi.a. in aliqua pportiōe veloci⁹ incipet moueri q̄ʒ.b.⁊ hñet reſi.am maiorem: ſeqť φ.a.tardi⁹ incipet moueri q̄ʒ.b.ɔñs flʒ. ſequiť ḡ φ in nulla ppor.ne veloci⁹ icipit.a.moueri q̄ʒ.b. ⁊ añ qd̄cūqʒ inſtans datū.a.mouebiť veloci⁹ q̄ʒ.b.⁊.b.ɔtinue mouebitur vni.:ḡ.a.icipit intēdere motū ſuū. Et φ.a.ɔtī. intēdet ar. ſic: q: ſi nō ſit.c.inſtās in quo deſinet intēdē: ⁊ ſeqť φ pro illo inſtāti nec intēdet motū nec remittet: q: ſi intēdet ⁊ in nulla ppor.ne ime.te poſt illd̄ inſtās.ſ.c.mouebiť veloci⁹ vel tardi⁹ q̄ʒ in iſto iſtāti: q: nec veloci⁹ nec tardi⁹ icipiet tūc reſi.re. ſui creſcere q̄ʒ pus: nec po. ime.te poſt illud inſtās velocius in aliq̄ certa ppor.ne intēdeť q̄ʒ tūc:ḡ ſi in i⁰ inſtāti intēdeť mot⁹ ei⁹: ſeqť φ imediate poſt i⁰ inſtās intēdeť: ḡ tūc non deſinet mot⁹ ei⁹ intēdi. Si ēt mot⁹ tūc remitteť: ſequiť per ɔſile arg.m φ pus remittet:ḡ tūc nō deſinet intēdi.pʒ ḡ φ ſi tūc deſinet intēdi φ in illo iſtāti nec intēdet motū ſuū nec remittet: ſit ḡ.f.ppor.a.po. ad ſuam reſi.am in iſto inſtāti:⁊ ſeqť φ in.f.ppor.ne veloci⁹ pro iſto inſtāti creſcet.a.q̄ʒ ſua reſi. ſicut pus argutū eſt. Si ḡ mouebiť vni. ⁊ eque. ſicut in illo inſtāti: q: nō ſubito ad aliquē gm intēdeť mot⁹ eius nec remitteť:ḡ ɔtinue poſt i⁰ inſtās eque. creſcet reſi. ſicut in illo inſtāti:⁊ po. illius veloci⁹ ⁊ veloci⁹ ɔtinue creſcet:ḡ ɔtinue poſt i⁰ inſtās q̄ʒdiu mouebiť plus q̄ʒ in.f.pportiōe veloci⁹ creſcet.a.q̄ʒ ſua reſi.:⁊ per falſigraphū inter.a.⁊ ſuā reſiſtentiā ɔtinue erit.f.ppor.: ḡ maior ɔtinue erit ppor.

cremēti.a.ſupra cre.m ſue reſi. q̄ʒ erit ppor.a.ad ſuā reſi.ā: ⁊ ſi ſic vt pus argutū fuit mot⁹ ei⁹ tūc intēdeť. Conſilr ar. ſi dicať φ poſt i⁰ inſtans remittet motū ſuuʒ tūc inci.et remittere: q: ſi ſic tūc tardi⁹ creſcet ſibi reſi. q̄ʒ in illo inſtāti: ⁊ po. veloci⁹ q̄ʒ in illo inſtāti:ḡ plus q̄ʒ in.f.ppor.ne veloci⁹ tūc creſcet po. q̄ʒ reſi.:⁊ per falſigraphū tūc minor erit pportio q̄ʒ.f.inter.a.⁊ ſuā reſi.am:ḡ tūc veloci⁹ ppor. intēdeť po. q̄ʒ reſi.:⁊ per ɔñs mot⁹ intēdeť. Et ſic ſeqť φ in illo inſtāti dato nō deſinet mot⁹ ei⁹ intēdi: ⁊ ſic de oī alio inſtāti eſt arguēdū:ḡ ſeqť φ ɔtī. itēdet motū ſuū: qd̄ fuit pbādū. ⁋ Alia ps ɔſilr ar.ſ.ſi tardius ⁊ tardi⁹ intēdať po. φ motus ei⁹ ɔtī. remitteť: q: φ icipiat remitti pʒ: q: añ qd̄cūqʒ inſtās mouebiť tardi⁹ q̄ʒ po. creſcēs ɔtī. equeue. ſicut illa incipit:⁊ nunq̄ʒ deſinet remitti: q: ſi ſic tūc icipiet manere. Sit ḡ.f.ppor. ex qua tunc moueť vt pono. Et ſeqť ex quo cre.m po. remittiť φ ime.te poſt iſtud inſtās tardius q̄ʒ in.f. ppor.ne veloci⁹ creſcet iſta po. q̄ʒ reſi. ſua: ⁊ ſi mot⁹ ſu⁹ intendeť ideʒ ſeqť:ḡ opʒ φ mot⁹ ei⁹ remittať: illud.n.ſeqtur ex vtraqʒ pte oppoſita ſi dicať. ⁋ Si po. moueť in me. 11 ʒ
vni. difformi terminato ad gm vel ad nō gm in extremo remiſſiori ſiue po. intēdať vel remittať vel nō varieť ſtāte medio nō variato qualiſcūqʒ erit aliqñ ppor. motus ad acqſitionē reſiſtētie vl̄ dpditionē: talis ſemp erit ſiue fuerit ppor. eq̄litatis mot⁹ ad acqſitionē vel decre.m reſi. ſiue ppor. ineq̄litatis: moueať.n.a.in.b.medio vni. difformi:⁊ ſeqť ſi veloci⁹ mouebiť ad vnū pūctū q̄ʒ ad aliū φ in qua ppor.ne mot⁹ erit velocior in eadē erit cre.m po. vel decre.m reſi. veloci⁹: q: ppor. ſic veloci⁹ mouebiť: ita velo⁹ acqret de ſpatio:⁊ oēm pteʒ eq̄leʒ trāſeūdo eq̄leʒ latitudinē reſi. acqret vel depdet. pʒ ḡ φ ſicut mot⁹ erit velocior ad vnuʒ punctū q̄ʒ ad aliū: ita veloci⁹ creſcet vel decreſcet reſiſtentia vndiqʒ per variationē ſue potētie:⁊ ſi vnifor. moueať vnifor. acqret reſiſtentiā: ḡ pportio mot⁹ ad vnū punctū ad motū ad aliū punctū ſe habebit ſicut pportio acquiſitionis reſiſtētie vel depditionis ad illuʒ punctum ſe hʒ ad acqſitionē vel depditionē reſiſtētie ad aliū pū:ḡ pmutatim ſicut mot⁹ ad vnū ſe habebit ad acqſitionē vel decre.m ad eundeʒ: ita mot⁹ ad aliū ſe habebit ad cre.m vel decre.m reſiſtentie ad eundeʒ qd̄ fuit pbādū. ⁋ Si ab extre. remiſ- 12 ʒ
ſiori mediȷ vnifor. difformis terminati ad nō gm icipiat po. moueri creſcēs a nō gradu potētie ⁊ a nō gradu cremēti: cui⁹ cre.m vnifor. intēdeť: mot⁹ ille tardi⁹ ⁊ tardius ɔtinue intendeť deductis alijs ipedimētis ⁊ iuuamētis: ita φ ſolum moueať ex pportiōe ſue potētie ad reſiſtentiam ſibi imediatā. Cz.n.intēdet motū ſuū ɔtinue pʒ per ɔñeʒ 10am: ⁊ φ nō vnifor. intendet nec velocius ⁊ veloci⁹ arguiť ſic. In infinitū tarde incipit eius po. intēdi: ḡ infinituʒ tarde incipit po. moueri. ɔña arguta eſt ɔñe 10a huius capituli. Et ex ɔñte arguiť ſic.a nō gradu incipit mot⁹ iſte intendi: ergo ſi vnifor. intēdeť: in triplo plus ptrāſibiť in ſcd̄a medietate illius tpis q̄ʒ in pª: ḡ in fine in q̄druplo plus diſtabit ab extremo remiſſiori huius mediȷ q̄ʒ in inſtāti me.o:⁊ per ɔñs reſi. quā in fine habebit erit in q̄druplo maior q̄ʒ in inſtāti medio:⁊ po. ſua erit in fine pciſe in q̄druplo maior q̄ʒ in inſtanti medio:ḡ in fine mouebiť equeue. precíſe ſicut in inſtāti medio. ɔñs eſt falſuʒ. ⁊ minor pʒ: quia cre.m illi⁹ po. creſcit vnifor. a nō gradu:ḡ in triplo plus acqret de po. in ſcd̄a medietate illi⁹ tpis q̄ʒ in pª:⁊ illa po. acqreť a nō g.:ḡ in fine erit in q̄druplo maior q̄ʒ in inſtāti medio: ex quo ſeqť vt pus ſi vnifor. intēdet φ mot⁹ ſu⁹ in fine erit equeuelox pciſe ſicut in inſtāti medio. ɔñs flm: q: tūc non ɔtinue intēdereť qd̄ eſt falſuʒ. ſeqť ergo φ nō vnifor. intēdet nec veloci⁹ ⁊ veloci⁹: q: ſi ſic plus q̄ʒ triplum ptrāſibit in ſcd̄a medietate tpis q̄ʒ in pma: cuʒ ḡ medium termineť ad non gradum: ſequiť φ reſiſtentia quaʒ habebit in fine

erit plus q̄ȝ quadrupla ad reſiᵃᵐ quã habebit in inſtãti me
dio ⁊ poᵃ in fine erit preciſe in q̄druplo maioꝛ q̄ȝ in p̃nᵒ vt
argutũ eſt: g̃ in fine erit minoꝛ ꝓpoꝛᵃ poᶜ ad ſuã reſiᵃᵐ q̄ȝ
p̃us.ſ.q̄ȝ in inſtãti medio.ꝯñs falſuȝ: q2 motᵘ eius ꝯtinue in/
tendet̃ ſiue g̃ intẽderet̃ motᵘ eiᵘ vniᶠ ſiue velociᵘ ⁊ velociᵘ:
ſeq̄t̃ ꝙ aliq̄n remittet̃.ꝯñs fȝ.relinq̄t̃ g̃ ꝙ motᵘ eiᵘ ꝯtinue
13ª ꝯ tardius ⁊ tardiᵘ intẽdet̃: q̄ð fuit ꝓbãduȝ. ¶ Si ab eodeȝ
puncto medij vniᶠ difformis ad queȝ eſt certᵘ gᵘ reſiſtẽtie
incipiãt due poᶜ ineq̄les moueri: que vniᶠ ⁊ equeᶠ intẽdãt̃
quaꝝ maioꝛ ꝯtinue vniforᶠ mouebit̃: minoꝛ ꝯtinue inten/
det motũ: ⁊ ſi maioꝛ q̄ȝ aliq̄ illaꝝ poneret̃ ad eundẽ pũctũ
⁊ equeuelociter intẽderet̃ cũ illis/iſta ꝯtinue remittet mo/
tuȝ ſuũ.Sit.n.a.iᵃ que vniᶠ mouebit̃ ⁊.b. poᵃ minoꝛ equeᶠ
creſcẽs cũ.a.⁊ arguit̃ ſic.Velociᵘ ꝓpoꝛᶠ incipit.b. creſcere
q̄ȝ.a.⁊ reſiᵃ.b.tardiᵘ ꝓpoꝛᶠ icipit creſcẽ q̄ȝ reſiᵃ.a.⁊.a.⁊ ſua
reſiſtẽtia ꝯtinue ꝓportiõabilr̃ intẽdet̃: g̃ velociᵘ ꝓpoꝛᶠ in/
cipit.b.intẽdi q̄ȝ ſua reſiᵃ.⁊ per ꝯñs icipit intẽdere motuȝ
ſuũ.ꝯña pȝ: ⁊ añs ſic arguit̃.b.eſt equalr̃ creſcẽs cũ.a. ⁊ eſt
minᵘ.a.g̃ velociᵘ ꝓportionabilr̃ creſcit.b.q̄ȝ.a.ꝯña cũ añte
ſatis pȝ: ⁊ alia ps añtis arguit̃: q2.b.mouet̃ vel incipit mo/
ueri tardiᵘ q̄ȝ.a.g̃ tardius icipit reſiſtẽtia creſcere reᵃ.b.q̄ȝ
reᵃ.a.⁊ reſiſtẽtie.a.b.ſunt eq̄les: g̃ velociᵘ ꝓpoꝛᶠ icipit reſiᵃ
a.creſcere q̄ȝ reſiᵃ.b.⁊.a.eque ꝓpoꝛᶠ ꝯtinue creſcet cuȝ ſua
reſiſtentia: ex quo ꝯtinue vniᶠ mouebit̃: g̃ ſeq̄t̃ ꝙ.b.ꝓpoꝛᶠ
velociᵘ incipit creſcere q̄ȝ ſua reſiſtẽtia: ⁊ per ꝯñs.b.icipit
intẽdere motũ ſuũ.Et ꝯtinue intẽdet motũ ſuũ: q2 ſi nõ det̃
inſtans ⁊ ſit.c.in quo deſinet intẽdere: ⁊ ſit.d.punctᵘ ad quẽ
tunc erit: vel g̃ tũc mouebit̃ equeᶠ cũ.a.vel velociᵘ vel tar/
diᵘ. Si tardiᵘ tũc mouebit̃.b.q̄ȝ.a.⁊.a. vndiq̄ȝ vniforᶠ mo
uebit̃: g̃ in.c.inſtãti mouebit̃.b.tardiᵘ ad.d.pũctũ q̄ȝ.a.mo
uebit̃ cũ deuenerit ad eundẽ: g̃ in.c.inſtãti erit.b.minoris
poᶜ q̄ȝ erit.a.cũ deuenerit ad.d.punctũ. Sed cũ.a.deuene/
rit ad.d.nõ intẽdet motũ nec remittet: g̃ ad illuȝ punctũ in
c.inſtãti intẽdet.b.motũ ſuũ.ꝯña tenet: ſicut argutũ eſt pro
p̃nᵃ tp̃is.⁊ per ꝯñs tũc nõ deſinet intẽdere motũ ſuũ. Si g̃
in.c.inſtãti mouebit̃.b.velociᵘ q̄ȝ.a.⁊ q̄ñcũq̄ȝ.a.ad aliqueȝ
punctũ deuenerit ad illuȝ equeueᶠ mouebit̃ ſic ad aliquẽ
aliũ: q2 vniforᶠ mouebit̃ ꝯtinue: g̃ in.c.mouebit̃.b. velociᵘ
q̄ȝ.a.mouebit̃ cũ deuenerit ad.d.punctũ: ⁊ per ꝯñs in.c.in/
ſtanti erit.b.maioris potẽtie q̄ȝ erit.a.cũ ip̃m ad.d.punctũ
deuenerit: g̃ tardius ꝓpoꝛᶠ creſcet tũc.b.q̄ȝ.a.creſcet ad.d.
punctũ: ⁊ ſua reſiᵃ velociᵘ ꝓpoꝛᶠ creſcet q̄ȝ reſiᵃ.a.ad illum
punctũ: q2 velociᵘ ſimplr̃ creſcet: eo ꝙ.b.mouebit̃ velociᵘ
q̄ȝ.a.g̃ tũc tardiᵘ ꝓpoꝛᶠ creſcet.b.q̄ȝ ſua reſiᵃ: ⁊ p ꝯñs tunc
remittet motũ.Et ſi ſic nõ tũc deſinet intẽdere: q2 ex q̄ tũc
remittet ante iᵈ inſtãs remittet: ⁊ ſi ſic tũc g̃ nõ deſinet in/
tendere.Si g̃ equeᶠ tũc mouebit̃.b.ſic.a.g̃ in illo inſtãti.ſ.
c.erit.b.tante potẽtie ſicut erit.a. cũ deuenerit ad.d. dimi/
nuat̃ g̃.a.quouſq̄ȝ fuerit tãte potẽtie ſicut.b.⁊ ponat̃ ad.d.
punctũ cuȝ.b.⁊ diminuat̃.a.b.equeueᶠ oĩo ſicut p̃us inten/
debat̃: ⁊ ſeq̄t̃ ꝙ ſicut.a.mouẽdo ab extremo remiſſiori ſui
medij ad.d.vniforᶠ ꝯtinue mouebit̃: ita eȝ per ſiliȝ remiſ/
ſionẽ ſue potẽtie vniᶠ ꝯtinue mouebit̃: ⁊ ſicut.b.in via ma
ioꝛatiõis ſue potẽtie ꝯtinue intẽdebat motũ ſuũ: ita in via
remiſſionis ꝯtinue remittet motũ ſuũ.Sed ꝯñs eſt fl̃m: q2
ſit nũc iᵈ inſtãs in quo icipiũt remitti eȝ mouẽdo ⁊ arᶠ ſic.
Ab iſto.d.puncto incipiũt.a.b.moueri: q2 ambaꝝ potẽtie ſemꝑ
eq̄les erũt: q2 nũc ſũt eq̄les ⁊ equeᶠ remittent̃ ꝯtinue: ergo
equeᶠ ꝯtinue mouebunt̃.ꝯña tȝ: q2 nõ eſt maioꝛ rõ q̄re.a.
ꝓcederet.b.qn eadeȝ rõne.b.ꝓcederet.a. cũ g̃ motᵘ.a.cõti/
nue erit vniformis: ſeq̄t̃ ꝙ motᵘ.b.ꝯtinue erit ẽt vniforᵐ.
ꝯñs falſuȝ: q2 motᵘ eius remittet̃ ſicut p̃us intẽdebat̃: ſeq̄t̃
ergo ꝙ in inſtãti in quo ponit̃.b.deſinere intẽdere motuȝ
ſuũ ꝙ in iᵒ inſtãti mouebit̃ ⁊ nõ velocius q̄ȝ.a.nec tardius:
nec equeᶠ cũ eo q̄ð eſt ĩpoſſ: ex quo vtrũq̄ȝ tunc mouebit̃.

Eadeȝ ꝯclõ alr̃ demõſtrat̃: p̃mo tñ ꝓbatur hec concluſio.
¶ Si ad aliquẽ punctũ medij vniforᶠ difformis terminati 14ª ꝯ
ad nõ gᵐ icipiat poᵃ moueri q̄ ꝯtinue ꝑ vniformẽ intẽſio/
neȝ ſue poᶜ vniᶠ ꝯtinue mouebit̃: quecũq̄ȝ poᵃ mioꝛ poſſet
ad aliquẽ punctũ incipe moueri: q̄ tñ equeueloci intẽſione
ſue poᶜ intẽderet̃ ſic erit intẽſio pᶜ poᶜ vniᶠ ꝯtiᶜ mouebit̃: q2
ſi nõ.ꝯ ſit.a.poᵃ mouẽs ad aliquẽ pũctũ que ꝑ intẽſionem
vniformẽ ſue poᶜ vniᶠ ꝯtiᶜ moueat̃: ⁊ ſit.b.poᵃ mioꝛ equeᶠ
⁊ ꝯtiᶜ creſcẽs cũ.a.⁊ ꝓbat̃ ꝙ aliq̄s eſt punctᵘ ad queȝ ſi.b.
poneret̃ ip̃m.b.ꝯtiᶜ vniᶠ moueretur.creſcat.n.c.poᵃ vniᶠ a
nõ gᵃ equeᶠ ſic ponit̃.a.b.creſcere: ⁊ ſeq̄t̃ ꝑ ꝯneȝ p̃mã ꝙ.c.
ꝯtiᶜ vniᶠ moueret̃. det̃ g̃ illud inſtãs in quo erit.c.equalis
poᶜ ſic nũc eſt.b.tũc g̃.c.erit ad aliquẽ punctũ illiᵘ medij q̄
ſit.d.⁊ ꝯtiᶜ poſt iᵈ iſtãs mouebit̃ vniᶠ: g̃ ſi.b.in p̃nᵒ poneret̃
ad illũ pũctũ: ſeq̄t̃ ꝙ.b.cũ iſta intẽſiõe ſue poᶜ vniforᶠ mo
ueret̃: q2 ꝯtiᶜ erit eq̄lis poᶜ ſic erit.c.poſt.d.inſtãs. Vel po/
nat̃ ꝙ añ ꝑ creuerit.c.iᵒ gᵒ quo creſcet.a.b.ita ꝙ nũc ſit.c.
eq̄lis.b.⁊ ponat̃.b.ad illũ pũctũ ad quẽ erit.c. ⁊ ſeq̄t̃ ꝙ ſic
c.mouebit̃ vniᶠ: ita ⁊.b. mouebit̃ vniforᶠ: q2 equeᶠ ꝯtinue
cũ.c.ex quo poᶜ ſemꝑ erũt eq̄les. ¶ Seq̄t̃ g̃ iſta ꝯclõ ex q̄
facillime demõſtrat̃ ꝯclõ ꝓcedẽs: q2 det̃.a.poᵃ q̄ icipiẽdo
motũ in extreᵒ huiᵘ medij vniᶠ difformis moueat̃ cõtinue
vniforᶠ per vniformẽ intenſionẽ ſue poᶜ: ⁊ ſit.b.poᵃ minoꝛ
equeueᶠ creſcẽs cũ.a.⁊ ponat̃ ad eundẽ punctũ cuȝ.a. Po/
nat̃ tũc ꝙ iſti meᵒ iungat̃ meᵐ vniforᶠ difforᶜ terminatũ in
extreᵒ intẽſiori ad gᵐ remiſſiſſimũ illiᵘ medij in quo ponũ/
tur.a.b.moueri ⁊ termiet̃ in alio extrᵒ ad nõ gᵐ: ita ꝙ totũ
meᵐ ſit vniforᶠ difforᶜ terminatũ ad nõ gᵐ ſicut totũ mediũ
ex alijs duobᵘ cõpoſitũ.⁊ ſeq̄t̃ vt ꝓbatũ eſt in hac ꝯne 14ª
ꝙ aliq̄s eſt punctᵘ illiᵘ medij ad quẽ ſi.b. poneret̃ cuȝ iſta
intẽſione poᶜ vniforᶠ ꝯtinue moueret̃. Ponat̃ g̃.c.potẽtia
eq̄lis.b.ad illuȝ punctũ q̄ ſemꝑ equeᶠ intẽdat̃ cũ.b.⁊ ſeq̄t̃
ꝙ.c.ꝯtinue mouebit̃ vniᶠ ſic faceret.b.ſi ibi poneret̃: ⁊.b.
ꝯtinue mouebit̃ cũ reſiᵃ maiori q̄ȝ.c.ergo ꝑ ꝯneȝ q̄rtã.b.
cõtinue intẽdet motũ ſuũ.Minoꝛ pȝ: q2 ex quo.b.ad pun/
ctũ ad quẽ nũc eſt velociᵘ ꝓpoꝛᶠ creſcet q̄ȝ ſua reſiᵃ: q2 in/
cipit intẽdere motũ ſuũ vt ꝓbatũ eſt pᵃ ꝓbatiõe ꝯnis.13.
Sed ad oẽm punctũ magis reſiſtentẽ tardius creſcet ſibi
reſiᵃ q̄ȝ ad illuȝ: ex quo motᵘ eẽt ibi tardioꝛ: g̃ tardiᵘ ꝓpoꝛᶠ
creſcet ſibi reſiᵃ ad punctũ magis reſiſtentẽ q̄ȝ ad punctuȝ
ad quẽ nũc ſunt.a.b.⁊ per ꝯñs ad oẽm punctũ magis reſi/
ſtentẽ q̄ȝ eſt ille punctᵘ ad quẽ nũc ſunt.a.b. velociᵘ ꝓpoꝛᶠ
creſcet poᵃ q̄ȝ reſiᵃ.Et ſi ſic cũ.c.poᵃ eq̄lis.b.cũ eq̄li cremẽ
to eque ꝓpoꝛᶠ ꝯtinue creſcet cũ ſua reſiᵃ: ſequit̃ ꝙ.c.eſt ad
punctũ cui minoꝛ reſiſtẽtia correſpondet q̄ȝ eſt ad punctũ vbi
nũc eſt.b.Et per ꝯñs.c.nunq̄ȝ attiget.b. q2 poᶜ ille ſunt eq̄/
les ⁊ ſemꝑ erũt: ⁊ per ꝯñs ſeq̄t̃ minoꝛ.vȝ.ꝙ.b. ꝯtinue mo/
uebit̃ cũ reſiſtẽtia maiori q̄ȝ.c.ex quo ſeq̄t̃ per ꝯneȝ q̄rtaȝ
ꝙ.b.ꝯtinue intẽdet motũ ſuũ: g̃ ſeq̄t̃ pᵃ ps ꝯnis. ¶ Cõſilr̃
oĩo arguit̃ ſcða pars ꝙ ſi maioꝛ poᵃ.a.poneret̃ ad eundeȝ
punctũ cũ.a.vniforᶠ mouẽte ꝯtinue remittet motũ ſuũ: q2
velociᵘ ꝓportionabilr̃ incipit ſua reſiᵃ creſcere q̄ȝ reſiᵃ.a.
ex quo eſt eq̄lis: ⁊ velociᵘ incipit creſcere ⁊ tardius ꝓpoꝛᶠ
incipit hᵒ poᵃ creſcere q̄ȝ.a.q2 eſt maioꝛ q̄ȝ.a.equeᶠ creſcẽs
cũ ea: ⁊.a.⁊ ſua reſiᵃ eque ꝓportiõabilr̃ ꝯtiᶜ creſcũt: g̃ velo
ciᵘ ꝓportiõabilr̃ icipit reſiᵃ talis poᶜ creſcẽ q̄ȝ ipſa poᵃ: ⁊ ꝑ
ꝯñs icipit remittẽ moᵐ ſuũ. ⁊ ſic arᶠ ꝙ ꝯtinue remittet ſic
p̃us arguebat̃ ꝙ poᵃ minoꝛ.a.ꝯtinue intẽdet motũ ſuũ.

Contra pᵐᵃ iſtaꝝ ꝯnuȝ ponat̃ ꝙ.b.ſit meᵐ vniᶠ diffoꝛ ꝯ p̃mas
me terminatũ ad nõ gᵐ reſiᶜ in vno extremo ꝯnem
quo extremo incipiat.a.poᵃ mouere creſcẽs vniᶠ a nõ gᵒ.⁊
ponat̃ ꝙ ad oẽm punctũ illiᵘ.b.medij icipiat poᵃ creſcẽ a
nõ gᵒ vniforᶠ ꝯtinue creſcẽs ſicut poᵃ.a.⁊ ſeq̄t̃ ꝑ ꝯneȝ 5ᵃᵐ:
ꝙ quelȝ illaꝝ q̄ñcũq̄ȝ mouebit̃ ĩtẽdet moᵐ ſuũ ⁊.a.ꝯtinue
mouebit̃ cũ aliq̄ illaꝝ equeᶠ: g̃.a.intẽdet motũ ſuũ: ⁊ per

ɔn̄s nō ɔtinue mouebit̄ vniformiter. Añs sic arguit̄. Per infi^m modicū incipit.a.distare ab aliqua illaꝝ po^{ar}:ꝛ.a.cō tinue mouebit̄ velociꝰ q̄ȝ aliq̄ illaꝝ.ḡ attinget aliq̄ illaꝝ:ꝛ postq̄ȝ aliquā illaꝝ tetigerit semꝑ mouebit̄ equeueˀ cum ea:q2 oēs iste po^c semꝑ erūt eq̄les:ḡ.a. intēdet motū suū ꝛ ɔtinue mouebit̄ equeueˀ cū aliq̄ illaꝝ. Añs arguit̄:q2 si.a. nō attinget aliquā quelȝ illaꝝ ɔtinue mouebit̄ cū resisten tia maiori q̄ȝ.a.ꝛ per ɔn̄s.a.ɔtinue mouebit̄ a ꝑpor^{ne} ma ioꝛi q̄ȝ aliq̄ illaꝝ:ꝛ si sic.a.cōtinue mouebit̄ velociꝰ q̄ȝ aliq̄ illaꝝ potētiaꝝ. Et ꝙ.a.nō attinget aliquā illaꝝ satis pȝ:q2 nō anteq̄ȝ illa mouebit̄ vt argutū est ɔne gnta nec postq̄ sequit̄ añs:exquo inducit̄ oppo^m ɔn̄s prime ḡ ɔ est falsa. ¶ Pro istis admittit̄ casus ꝛ ɔcedit̄ ꝙ quelȝ ɔtinue intē det motū suū:ꝛ etiā ɔcedit̄ ꝙ.a.ɔtinue mouebit̄ velocius q̄ȝ aliqua illaꝝ.ꝛ negat̄ ɔn̄a q̄n ɔcludit̄ ꝙ.a.attiget aliquā illaꝝ:ita ꝙ erit ad eundeȝ punctū cū aliq̄ illaꝝ:ſȝ bn̄ seq̄t̄ ꝙ per infi^m modicū ɔtinue distabit ab aliq̄ illaꝝ:ꝛ idē est cōcedendūȝ. vn̄ in casu subito intēdet aliqua illaꝝ motuȝ suū a nō g^u vsqȝ ad graduȝ quo mouebit̄.a.exclusiue:q2 ꝑ infinitū modicū ɔtinue distabit.a.ab aliqua illaꝝ vt notū est:eo ꝙ ɔtinue mouebit̄ velociꝰ q̄ȝ aliqua illaꝝ:ꝛ per infi nitū modicū nūc distat ab aliqua illaꝝ vel incipit distare. Simil'r lȝ quelȝ illaꝝ ɔtinue intendet motū suū: nunq̄ȝ tn̄ mouebit̄ aliqua istaꝝ equeueˀ cū.a. q2 quelȝ illaꝝ ɔtinue ꝑcedet.a.vt argutū est:ideo tardius,ꝛ tardiꝰ intēdet quelȝ illaꝝ motū suū:q2 resistētia velociꝰ ꝛ velociꝰ crescet:ꝛ po^a

ȝ 4^m vnifor':ꝛ sic nō ꝓcedit arg^m. ¶ Quarte ɔclōni sic obycit̄.

Si in casu posito.b.ɔtinue mouebit̄ velocius.a. ꝛ ꝑ finitū soluȝ distat ab.a.ergo in aliquo tp̄e finito pōt attingere.a. Consequētia arguit̄ sic. Exquo.b.ɔtinue mouebit̄ velociꝰ a.ꝛ morꝰ eius gradui intēsiori corrn̄debit q̄ȝ motus.a.sit ḡ f.ꝓportio motus.b.ad motū.a.ꝛ seq̄t̄ ꝙ quātūcunqȝ mo dica sit.f.ꝓportio,tantū pōt esse mediū aut distātia iter.b. ꝛ aliquē punctuȝ illius medij qð se babeat in.f.ꝓpor^{ne} ad distātiā inter.a.ꝛ eundem punctū sicut imaginato medio infinito ita ꝙ in oi p̄te equali illiꝰ sit equalis latitudo sic ꝙ ois pars eius finita sit vnifor' difformis: ꝛ nō est dubiū ꝙ nō est aliqua ꝓportio imaginabilis:gn distantia inter.b.ꝛ aliquē punctū illiꝰ medij se babeat in tanta ꝓpor^{ne} ad di stantiā inter.a.ꝛ eundē punctū:exquo īfinite magna est di stantia inter.a.ꝛ aliquē punctuȝ:ꝛ etiā infi^{te} modica est di stantia inter.a.ꝛ aliquē punctū. ¶ Pro istis dī cōcedendo ɔnē:ꝛ negat̄ ɔn̄a p̄^a. vn̄ dȝ tardius ꝛ tardiꝰ remittere mo^m suū:sic ꝙ per quātūcunqȝ tp̄s remittat,nunq̄ȝ deueniat ad eq̄litatē morꝰ illiꝰ.a. Tūc ad ꝓbationē dī ꝙ nullus ē ḡdus cui ɔti^c corrn̄debit eiꝰ morꝰ:ſȝ in aliq̄ tp̄e corrn̄debit suus morꝰ gradui intēsiori q̄ȝ est morꝰ.a.ꝛ in aliqua ꝑpor^{ne} gr̄a exēpli dupla ꝛ in tp̄e maiori corrn̄debit eius morꝰ gradui intēsiori q̄ȝ est morꝰ.a.ꝛ boc in miori ꝑpor^{ne} q̄ȝ dupla ꝛ sic in infi^m:ita ꝙ īfinite modice intēsiori ḡdui q̄ȝ est motus.a. poterit corrn̄dere. Et nūc q̄n pōit̄ ꝙ.f.sit ꝓporº ꝛc. admit tit̄ isto mō:ꝙ dato tp̄e aliquo in illo corrn̄deat morº.b.gra dui in.f.ꝓpor^{ne} intēsiori q̄ȝ est morꝰ.a.ꝛ ɔcedit̄ ꝙ aliqs est punctꝰ ad quē distātia inter.b.ꝛ illū se hȝ in.f.ꝓportiōe ad distantiā inter.a.ꝛ eundeȝ punctū.ꝛ dī ꝙ in isto tp̄e in quo morꝰ.b.corrn̄debit ḡdui in.f.ꝑpor^{ne} intēsiori q̄ȝ motus.a. nō deueniet ad illuȝ punctū nec etiā.b. sed cū.a.deuenerit ad illū punctū corrn̄debit morꝰ.b.gradui remissiori q̄ȝ est gº se h̄ns ad motū.a.in.f.ꝑpor^{ne}:alr̄.n.bn̄ ꝓcederet argu^m. Unde in casu isto quecūqȝ fuerit ꝑporº distātie inter.b.ꝛ aliquē punctū illiꝰ medij ad distātiā inter.a. ꝛ eundē cū.a. ad illuȝ pūctū deuenerit erit totꝰ morꝰ.b.ꝑcedēs ad motū a.in minori ꝑpor^{ne} q̄ȝ est illa data:q2 vt argutū est ad oēȝ punctū illiꝰ medij citiꝰ deueniet.a.q̄ȝ.b. Sed si esset tanta ꝑportio motuū.a.b.sicut suaꝝ distātiaꝝ,equecito ad illuȝ punctū deuenirent vt notuȝ est:sed iº est fl'm.pȝ ergo solō illius argumēti.

¶ Cōtra decimā ɔneȝ arguit̄ sic. Ponat̄ ꝙ.c.sit mediū vnifor' difforme terminatū ad nō graduȝ a ȝ 10^m cuiꝰ extreº remissiori incipiat.a.poª mouere crescens vni' a nō g^u ꝛ incipiat.b.intēdi a nō g^u po^c ꝛ tardiꝰ īcipiat intē di q̄ȝ.a.ꝛ intēdat̄ ɔti^c velociꝰ ꝛ velociꝰ:tūc ar' ꝙ.b. nō ɔti^c intēdet motū suū:quia signet̄ i^d instās in quo mouebit̄.b. eque' sicut.a.ꝛ ponat̄ ꝙ ꝓtūc eque' ꝑcise intēdat̄.b.in poª sicut.a.ɔti^c intēderet̄ sicut appet esse pole:eo ꝙ in aliq̄ tp̄e pōt intēdere motū suū ad g^m ipsius.a.ꝛ in tp̄e subduplo ꝛ sic in īfi^m:ḡ sua poª pōt aliqual'r velociter intēdi cū motus suꝰ fuerit eq̄lis motui.a.ꝛ in duᶜ velociꝰ ꝛ sic in īfi^m:ḡ casus est polis. Sit ḡ.d.id instans in quo morꝰ.a.b. erūt eq̄les ꝛ sit.e.punctꝰ ad quē tunc erit.b.ꝛ ar' sic. In.d.instāti moue bit̄.b.eque' sicut mouebit̄.a.in eodē instāti:ꝛ.a.tūc moue bit̄ ꝑcise eque' sicut mouebit̄ ad aliquē pūctū cū ad i^m fue rit:exquo morꝰ eiꝰ manebit ɔti^c vnifor^m:ḡ cū.a. deuenerit ad.e.punctū mouebit̄ eque' sic in.d.instāti mouebit̄.b.ad eundē.ḡ cū.a.fuerit ad.e.punctū erit tante po^c sicut.b.erit in.d.instāti. Dimiuat̄ ḡ.a.ad eq̄litatē.b.ꝛ ponat̄ ad.e.pun ctū cū.b.q̄n.s.est factū eq̄lis po^c eiꝰ.b.ꝛ diminuat̄ vtrūqȝ illoꝝ ɔsil'r oīo sicut p̄us intendebat̄.s.a.vni' ꝛ.b. tardius ꝛ tardiꝰ:ita ꝙ in oi instāti in via dimiutiōis sit vtrūqȝ ꝑcise tāte po^c sic̄ in istāti corrn̄denti in via augmētatiōis:ꝛ seq̄t̄ ꝙ vtrūqȝ oīo ɔsil'r mouebit̄ ab.e.v̄sus extremū remissius sicut p̄us mouebat̄ ab extremo remissiori v̄sus eundeȝ.e. punctū.moueat̄.n.v̄sus extremū remissius in via diminu tionis:cū ḡ.a.in via augmētatiōis mouebit̄ vni' ɔtinue ꝛ b.intēdet motū suū: seq̄t̄ ꝙ in via dimiutiōis mouebit̄ et a.vni' ꝛ.b.remittet motū suū.ſȝ ɔn̄s ē fl'ȝ:ḡ ꝛ añs. Falsitas ɔn̄tis pȝ:q2.a.b.eque' mouebunt̄ in.d.instāti: ꝛ tūc icipiet b.mouē velociꝰ q̄ȝ.a.ꝛ.a.ɔtinue vni' mouebit̄. ḡ in isto in stanti icipiet.b.intēdere motū suū ꝛ nō remittere. Añs pȝ: q2.a.ꝛ.b.tūc erūt eq̄lis po^c ꝛ.a.ɔtinue velociꝰ diminuet̄ in poª q̄ȝ.b.q2.a.ɔtinue eque' diminuet̄ in poª sic̄ in isto instā ti ꝛ.b.tardiꝰ ꝛ tardiꝰ ɔti^c diminuet̄:ḡ tūc icipiet.b.eē maio ris po^c q̄ȝ.a.ꝛ ꝑ ɔn̄s icipiet ꝑcedere.a.q2 idē nc^m citiꝰ ꝑtrā sibit̄ a poª a^{li} q̄ȝ a minori:ḡ.b.tūc icipiet mouē cū resiª mi nori:ꝛ ꝑ ɔn̄s velociꝰ tūc icipiet mouē q̄ȝ.a. Et sic arg' ꝙ.b. ɔti^c velociꝰ mouebit̄ q̄ȝ.a. q2 oēȝ punctū illiꝰ medij citius ꝑtransibit q̄ȝ.a.ex q̄ sua poª ɔti^c erit maior q̄ȝ poª.a. ꝛ si sic ɔti^c mouebit̄.b.cū resiª minori q̄ȝ.a.ꝛ cū poª maiori: ḡ ve lociꝰ ɔti^c mouebit̄.b.q̄ȝ.a.ꝛ ꝑ ɔn̄s in via diminutiōis intē det mo^m:ḡ p̄us in via augmētatiōis remittet motū: ḡ ɔclō falsa. ¶ Pro isto dī ɔcedendo ɔnē vt ar^m demōstrat ꝛ ad casuȝ ncᶜ hec ꝑicula cū ponit̄ ꝙ q̄n morꝰ.a.b. erunt eq̄les ꝙ tūc intēsiones suaꝝ po^{ar} erūt eq̄les: q2 tūc seq̄t̄ ꝙ.b.in via dimiutiōis itēdet mo^m suū vt argutū est. Et idē seq̄t̄ si tardiꝰ tūc intēdet̄.b.q̄ȝ.a.q2 tūc tardiꝰ icipet.b. remitti:ꝛ ꝑ ɔn̄s tūc incipet sua poª eē maioꝛ q̄ȝ.a.ḡ tūc icipet.b.moue ri velociꝰ q̄ȝ.a.ꝛ si sic.b.tūc incipet intēdere motū suū.ɔn̄s est fl'ȝ.cū.a.ɔti^c mouebit̄ in via dimiutiōis vni' ꝛ eque' sic̄ in isto instāti. Uel sic. Ponat̄ ꝙ.b.ɔti^c velociꝰ ꝛ velociꝰ in tendat̄ in poª ꝛ sit.d.instās in quo mouebit̄ eque' cū.a.tūc b.ɔti^c intēdet motū suū vt argutū est in ista 10ª ɔne: ḡ per d.instās intēdet̄ morꝰ.b.ꝛ morº.a.ɔtinue manebit vnifor mis:ḡ cū.a.fuerit ad illuȝ punctū erit ꝑcise tante po^c sicut erit.b.ad eundē punctū:ꝛ.a.nō intēdet mo^m suū ꝓunc ad istū punctū n^c remittet ꝛ.b.tamē intēdet:ḡ velocius tūc in tendet̄.b.in potētia q̄ȝ.a.qð fuit ꝓbāduȝ. Et sic nō ꝓcedit argu^m ɔ ɔnem.

¶ Conclōni 12^e sic obycit̄. Ubi poª sic cre ȝ 12^m scit a nō g^u:cuius cre^m vni' a nō g^u intēdit̄ īfinite tarde īci pit morꝰ intēdi:ḡ nō ɔti^c tardiꝰ ꝛ tardiꝰ intēdere:q2 tūc ɔti nue īfinite tarde vel tardiꝰ q̄ȝ infinite tarde intendet̄. Añs sic arguit̄. Sit.a.bȝ potētia crescens vt ponit̄ in ɔne:ꝛ sit

b.ſuum mediū: ⁊ arguit̄ ſic.a.icipit intēdere motū ſuū vel
ergo infinite tarde vel infite velociter vel ſolū finite velor.
Si ifinite tarde. bñ ppom. Si ḡ ifinite velociter icipit mo/
tus ei⁹ intēdi cū a nō gᵒ icipit mot⁹ eius intēdi ⁊ crem po^e
vnir icipit a nō gᵒ intēdere: ḡ ifite veloci⁹ icipit mot⁹.a.in/
tendi q̄ crem ſue po^e: ⁊ a nō gᵒ icipit mot⁹ intēdi ſic̄ ⁊ crem
po^e vt argutū eſt in pbatiōe ꝯnis euiſdez: ḡ ifinite magna
incipit eē ppor^e mot⁹ ad acqſitionē po^e ⁊ ſolū finita icipit
eē ppor^e mot⁹ ad crem reſi^e ſiue fuerit ppor^e maioris ieq̄/
litatis ſiue eq̄litatis ſiue mioris ieq̄litatis: ḡ ifite mag⁹ ici/
pit eē ppor^e reſi^e ad pom: ⁊ per ꝯñs nō icipit eē mot⁹: vel
ſi icipiat pueniat a pporie mioris ieq̄litatis.oēs ꝯñe patēt.
Añs arguit̄.ſ.q̄ ſolū finita icipit eē ppor^e mo⁹ ad acqſitio/
nem reſi^e: q2 ex q̄ mem eſt vnir diffor^e ⁊ mot⁹ erit aliqñ ſub
aliq̄ gᵒ: ḡ aliqñ erit fita ppor^e mot⁹ ad crem reſi^e ⁊ per ꝯnez
11e q̄lis aliqñ erit ppor^e mot⁹ ad crem reſi^e in me⁹ vnifor^r
difformi: talis ſp erit q̄lrcūq3 mobile varieł: ḡ nūc incipit
eē ſoluz finita ppor^e mot⁹ ad crem reſi^e ex quo deducit̄ vt
prius q̄ veloci⁹ icipit reſiª intēdi q̄ po^a. id ḡ nō pōt poni.ſ.
q̄ ifite velociter icipit mot⁹ ei⁹ intēdi. Si ḡ di 3m.ſ.q̄ ſoluz
finite velocit̄ icipit mot⁹ eius intēdi. Cōtra.ponat̄ q̄.d.ſit
mediū vnifor^r difforme equali latitudine qua.b.ſit tamē
ſubduple quātitatis ad.b.a cuius extremo remiſſiori cre/
ſcat.c.po^a a nō gᵒ. Cōſilr olo ſicut creſcet.a.ita q̄.c.⁊.a.ꝯn^e
ſint eq̄lis po^e: ⁊ ſeq̄t̄ q̄.a. veloci⁹ icipit moueri in.b.q̄.c.in
d.q2 alr.a.incipet eē ita ppinquū extre^o remiſſiori.b.ſicut
c.extr^o remiſſiori.d.vel ppinqui⁹: ⁊ ſi ſic incipet mouere cū
reſiª miori q̄.c.⁊ cū po^a eq̄li: ḡ veloci⁹ necīo icipit.a.moue
ri q̄.c.añs pʒ per B q̄ cuicūq3 pūcto.b.corñdet reſiª mi/
nor q̄ pūcto eq̄lr diſtāti ab extre^o remiſſiori.d.ſeq̄t̄ ḡ q̄.a.
veloci⁹ icipit mouē q̄.c.⁊ a nō gᵒ incipit vtrūq3 moueri: ḡ
veloci⁹ icipit.a.intēdere mom ſuū q̄.c.ſuū: ſed nō in duplo
veloci⁹ icipit.a.intēdere mom ſuū q̄.c.ſuum: n^e plus q̄ in
du^o veloci⁹ icipit intēdere.a.motū ſuū q̄.c.ſuū: q2 ſi in du^o:
ḡ in du^o veloci⁹ icipit moueri.a.in.b.q̄.c.in.d.⁊ giʒ gᵒ illi⁹
latitudie reſi^e p in du^o plus diſtabit ab extre^o remiſſiori.b.q̄
ab extre^o remiſſiori.d.ex quo.b.eſt dum ad.d.ḡ cū eq̄li reſiª
incipit.a.moueri in.b.ſicut.c.in.d.⁊ p ꝯñs nō veloci⁹ icipit
a.mouere q̄.c.ꝯñs fl3. Si et plus q̄ in du^o veloci⁹ icipiat
a.intēdere motū ſuū q̄.c.ſuū: ḡ plus q̄ in du^o veloci⁹ inci/
peret mouē.⁊ per ꝯñs cū reſiª maiori icipit.a.mouē q̄.c.ḡ
tardius.ꝯñs fl3. Seq̄t ḡ q̄ tardi⁹ q̄ in du^o veloci⁹ ipſo.c.
incipit.a.intēdere motū ſuū. Det̄ ḡ gᵒ quo.a.icipit itēdere
motū ſuū ⁊ det̄ gᵒ duplus ad gm quo.c.icipit motū ſuū intē
dere: ⁊ ſit.f. ppor^e iter illuz gm dum ⁊ gm quo.a. icipit inten/
dere mom ſuū. Et arguit̄ ſic. Si in.b.me⁹ icipet.a.vel vnuz
aliud mobile intēdere mom ſuū a nō gᵒ in du^o veloci⁹ q̄.c.
icipit in.d.idē icipet mouē cū reſiª eq̄li ſicut.c.q2 tūc in du
plo veloci⁹ icipet mouē in.b.q̄.c.in.d. Sʒ in.f. pportione
tardi⁹ icipit.a.mouere q̄ tūc moueret̄ ipm vel aliud mo/
bile ſic intēdens motū ſuū: q2 in.f. pporie icipit.a. tardius
intēdere motū ſuū q̄ tūc: ḡ in.f. pporie icipit reſiª.a.eē mi
nor q̄ tūc eēt: ⁊ tūc incipet eius reſiª eē eq̄lis reſiſtētie.c.ḡ
nūc in.f. pporie icipit reſiª.a.eē minor reſiª.c. ⁊ ſicut icipit
eſſe.f. ppor^e reſi^e.c.ad reſiſtētiā.a. ⁊ ifinite modica incipit
eſſe ppor^e.c.ad ſuā reſiām: ḡ cū pportio.c.ad reſiām.a.cōpo
nat̄ ex pporie ſue po^e ad reſiām ſuā ppriā ⁊ ex pporie ſue
reſiſtētie ad reſiſtētiā.a.pʒ q̄ infite maior incipit eē ppor^e
c.ad reſiſtētiā.a.q̄ ad ſuā reſiām ppriā. vel ſic infinite mo/
dica pciſe icipit eē ppor^e.c.ad ſuā reſiſtētiā: ex quo ifinite
tarde incipit mouere: ⁊ reſiſtētie.c.ad reſiſtētiā.a. icipit eē
pportio.f. ergo ifinite maior icipit eē pportio reſiſtētie.c.
ad reſiſtentiā.a.q̄.c.ad reſiām ſuā ppriā: ⁊ maior ſemp erit
ppor^e.c.ad reſiām.a.q̄ reſi^e.c.ad reſiām.a.q2.c.ſemp eſt ma
ior q̄ ſua reſiª: ḡ infinite maior icipit eē ppor^e ad reſiās.a.

q̄ ad reſiām ſuā ppriā: ⁊ tanta pciſe erit ꝯtra ppor^e.c.po^e ad
reſiſtentiā.a.ſicut erit ppor^e.a.po^e ad eandē: ex quo ille po^e
ſemp erunt eq̄les: ergo infinite maior incipit eſſe ppor^e.a.
ad ſuā reſiſtentiā q̄.c.ad ſuā.⁊ per ꝯñs infinite veloci⁹ in/
cipit.a.mouere q̄.c.⁊ per ꝯñs ifinite veloci⁹ icipit.a.inten
dere motū ſuū q̄.c.ſuū: ⁊.c.aliq̄talr velociter: ḡ ifinite ve/
lociter icipit.a.intēdere motū ſuū: igit̄ nō ſoluz finite velo
citer. Añs pʒ: q2 ſic argutū eſt in ꝯne 12e: quelʒ talis po^a q̄
ſic intēdet̄ a nō gradu: cui⁹ crementū vnifor^r intendet̄ tar/
dius ⁊ tardius ꝯtinue intēdet motū ſuū qō nō eſſet niſi in/
finite velociter vel certe velociter incipet mot⁹ eius inten
di. ſeq̄t̄ ḡ q̄ nō pōt poni q̄ finite velociter vel ifinite velo
citer incipit intēdere motū ſuū: ḡ infinite tarde icipit intē/
dere motū ſuū: ḡ nō ꝯtinue tardi⁹ ⁊ tardius itēdet: ḡ ꝯclo
eſt falſa. ¶ Pro iſtis ꝯcedenda eſt ꝯclo: ⁊ negat̄ q̄ ifinite
tarde incipit.a.intēdere motū vel infite velociter: q2 ſi infi
nite tarde incipet mot⁹.a.intēdi ⁊ crem po^e.a.certe velociter
cōtinue intendet̄: q2 vnifor^r: ḡ infinite veloci⁹ incipet crem
po^e.a.intēdi q̄ mot⁹ eius ⁊ a nō gradu incipet mot⁹ intēdi
ſicut crementū vt argutū eſt: ḡ infinite magna incipet eſſe
pportio cremēti potētie.a.ad motū eiuſdez: ⁊ ſoluʒ finita
cōtinue erit pportio mot⁹ ad acqſitionē ſue reſiſtētie: ſiue
iſta ſit pportio eq̄litatis ſiue maioris ineq̄litatis ſiue mi/
noris: ḡ infite magna incipit eſſe pportio cremēti po^e.a.ad
crementū ſue reſiſtētie: ⁊ a nō gradu incipiūt hꝫ potētia ⁊
reſiſtētia creſcere: ḡ infinite magna icipit eē pportio po^e
ad reſiſtentiā: ⁊ per ꝯñs infinite velociter incipet intēdere
motū ſuum ⁊ nō infinite tarde. ¶ Ideo pro ſolōne huius Nota
argumēti eſt notādum q̄ qñ aliqd mouebit̄ ab aliquo in/
ſtanti ꝯtinue remittēdo motū ſuū: vel intēdendo nulla eſt
maxima velocitas que imediate poſt hoc tale inſtans mo
uebit̄: ſed aliqs eſt gradus a quo excluſiue incipiet motus
intēdi vel remitti qō ſic arguit̄. Incipiat.a.mouere remit/
tendo motuʒ ſuū ꝯtinue: ⁊ capiat̄ gradus a quo incipit re/
mittere motū ſuū: ⁊ ponat̄ q̄.b.ꝯtinue ante B remittebat
motū ſuū veloci⁹ mouēdo q̄.a.ita q̄ ꝯtinue poſt B eque/
velociter moueat̄ cū.a.⁊ ſit nūc inſtās illud in quo.b.inci/
pit mouere eque velociter cū.a. ⁊ arguit̄ ſic. Aliqs eſt gra/
dus quo.b.in inſtāti pñti mouet̄: q2 ipoſſe eſt q̄.b. nūc mo/
ueat̄: ⁊ tñ q̄ nullus ſit certus gradus quo mouet̄: cū ḡ mo/
tus.b.ꝯtinue remittet̄: ſequit̄ q̄ nunq̄ mouebit̄.b. ita ve/
lociter ſic̄ nūc mouet̄: ḡ gradus quo nunc mouet̄.b. nō eſt
intēſiſſim⁹ quo imediate poſt hoc mouebit̄.b.n^e aliqs ali⁹
gradus intēſior: eo q̄ mot⁹ ſuus ꝯtīue remittet̄: nec remiſ/
ſior gradu quo nūc mouet̄.naʒ quicūq3 remiſſior det̄ tpe
erit anteq̄ ita remiſſo gᵒ moueat.b.ḡ nulla eſt maxia ve/
locitas qua imediate poſt hoc mouebit̄.a.idez et eſt argm
vbi mot⁹ intendat̄: pʒ ḡ notabile. ¶ Conſilr deducit̄ q̄ ſi
motus alicui⁹ incipiat intēdi vel remitti qui ꝯtie tardius ⁊
tardius intendet̄ vel remittet̄ vel veloci⁹ ⁊ veloci⁹ nullus
eſt gradus intēſiſſim⁹ quo imete poſt hoc intendet̄ vel re/
mittet̄. ¶ Per hec rñdet̄ argo ⁊ cōcedit̄ q̄.a.icipit finite
velociter intēdere motū ſuū: ⁊ cōcedit̄ etiā q̄ nō in du^o ve
locius ipſo.c.intēdere.a.incipit motū ſuum: nec plus q̄ in
duplo veloci⁹ ⁊c̄.in nulla pportione tñ tardi⁹: q2.a.incipit
intēdere motū ſuū excluſiue a gᵒ du^o ad illuʒ gm a quo ex/
cluſiue incipit.c.intēdere motū ſuum.nec eſt illud incōue/
niens.vʒ.q̄.a.icipit intēdere motū ſuū velocius q̄.c.ſuū ⁊
min⁹ q̄ in du^o veloci⁹: ⁊ tñ in nulla pportiōe minus q̄ in
duplo velocius vbi.ſ. nullus eſt gᵒ intēſiſſimus quo aliqō
illoꝝ incipit intēdere motū ſuū. vbi tñ rem vtriuſq3 eēt da/
re maximā velocitatē qua ipm icipit intēdere nō eſt illud
poſſe. vbi gr̄a. remittat̄ mot⁹ aliqs ab octo vſq3 ad q̄tuor
vnir excluſiue icipiēdo ab octo: ⁊ remittat̄ ali⁹ mo^a q̄tuor
excluſiue vnir vſq3 ad tria: ⁊ remittat̄ 3⁹ mot⁹ vnir a q̄tuor

excluſiue vſqȝ ad duo:tūc p̄m⁹ mot⁹ ꝯtinue erit duplus ad 3ᵐ:q2 a gᵘ duplo in du⁹ veloci⁹ ꝯtiᵉ remittet̄: ⁊ ſcd̄s motus ꝯtinue erit intēſior 3ᵒ:eo ꝙ ab eodē gᵘ ꝯtiᵉ remittet̄: ⁊ 3ᵘ in du⁹ veloci⁹ ꝯtiᵉ 2ᵒ:ḡ p̄mi⁹ mot⁹ nunq̄ȝ erit duplus ad 2ᵐ: ⁊ tn̄ p̄m⁹ mot⁹ incipit eē intēſior 2ᵒ:⁊ ēt in nulla ꝓpoꝛᵒⁿᵉ incipit p̄m⁹ mot⁹ eē minoꝛ q̄ȝ duplus ad 2ᵐ:q2 in nulla ꝓpoꝛtiōe incipit p̄m⁹ mot⁹ eē minoꝛ q̄ȝ duplus ad gᵐ vt q̄tuoꝛ qui gᵘ ꝯtiᵉ erit intēſioꝛ 1ᵒ 2ᵒ motu q ab 1ᵒ gᵘ icipit remitti:⁊ ſic ēt eſt de intēſione mot⁹ que intēſio remittet̄. Et tūc ad argᵐ qn̄ ſic dr̄:dēt gradus quo.c.incipit intēdere:⁊ gradus quo.a.incipit qui ad illuȝ nō eſt duplus:dr̄ ꝙ nullus eſt gᵘ quo.c.icipit intēdere motū ſuū:ita ꝙ 1ᵒ gᵘ incipiat ⁊ nō intenſioꝛ:⁊ ſic dr̄ de.a.Si tn̄ aliqui eēnt tales gradus bn̄ ꝓcederet arᵐ ꝓbādo ꝙ inter 1ᵒ ⁊ ēt inter gᵐ duᵐ ad gᵐ quo incipiet intēdere motū ſuū ⁊ gᵐ quo.a.inciperet intēdere eēt aliqua ꝓpoꝛtio certa:ſed cū nō ſint tales gᵒ: ideo nō ꝓcedit arᵐ.
3 13ᵐ dit arᵐ. ℂ Cōtra 13ᵐ ꝯneȝ ſic arʳ. Sit.a.poᵃ que in.b.medio vnifoꝛʳ mouet̄:⁊ ſit.c.poᵃ minoꝛ q̄ȝ.a.applicata ad eūdeȝ punctū cui applicat̄.a.⁊ intēdat̄ ꝯſilr cū.a.⁊ argʳ ſic.c. cōtinue intēdet motū ſuū ⁊ finite diſtat a gᵘ quo.a. ꝯtinue mouebit̄ vniʳ:ḡ aliqn̄ poterit mot⁹.c.intēdi ad gᵐ quo mouebit̄.a.q2 nō eſt aliq̄s gᵘ intēſiōis ita remiſſus qn̄ mediāte 1ᵒ gᵘ poſſet tota latitudo inter motū.c.⁊ motū.a.acq̄ri in certo tp̄e finito.dēt̄ ḡ punct⁹ ad queȝ.c. mouebit̄ ita veloʳ ſicut.a.ꝯtinue mouebit̄ ⁊ ſit.e.⁊ ſit.d.inſtans in quo.c. mouebit̄ equeueʳ cū.a.⁊ labat̄ tp̄s vſqȝ ad.d.inſtās:ita ꝙ nūc ſit.d.inſtās:tūc arʳ ꝙ.c.nō ꝯtinue an̄ hoc intēdebat motū: q2.a.nūc mouebit̄ equeueʳ ſicut ideȝ.a.mouebat̄ ad.e.pūctū:q2 mot⁹ eius ꝯtiᵉ māſit vniformis.ḡ qn̄.a.fuit ad.e.pūctū mouebat̄ equeueʳ ſicut nūc mouet̄.c.ad ideȝ punctū:⁊ per ꝯn̄s tūc fuit.a.⁊ante poᵉ ſic nūc eſt.c. diminuat̄ ḡ.a.ad equalitatē.c.⁊ ponat̄ ad.e.punctū ⁊ diminuant̄.a.c. nūc facta eq̄lia equeʳ oīo ⁊ vniʳ ſicut prius augmētabant̄ anteq̄ȝ ad.c.punctū deuenirent: ⁊ ſeq̄t̄ ꝙ vtrūq̄ȝ mouēdo verſus extremū remiſſius equeʳ ꝯtiᵉ mouebit̄ ſicut prius mouebat̄ verſus.e.pūctū ⁊.a.prius mouebat̄ v. ſʳ: ḡ nūc cȝ mouebit̄ a.vniʳ ⁊.c.equeʳ mouebit̄ cū.a. cū ſꝑ erit eq̄lis poᵉ ſicut.a. ex quo nūc ſunt eq̄les ⁊ ꝯſilr diminuent̄:ḡ.c. ꝯtinue mouebit̄ vniʳ:⁊ nūc ꝯſilr mouebit̄ ſicut in via augm̄tatiōis mouebat̄.ḡ in via augmētationis mouebat̄ vniʳ ⁊ nō intēdebat motū ſuū. ℂ Pro 1ᵒ ꝯcedit̄ ꝯclō ⁊ admittat̄ caſus. Et qn̄ ꝯcludit̄ ꝙ mot⁹.c.pōt intēdi ad eq̄litatē mot⁹.a.negat̄ ꝯn̄s:l3 ꝯtinue intēdet motū ſuum ⁊ cū gᵘ finito quātūcūq̄ȝ remiſſo poſſet.c.intēdi ad motū.a.nᵒ.n.eſt gradus cui poſſet tota intēſio mot⁹ eius correſpōdere:poſito ꝙ per tp̄s inſtᵐ duraret hō intēſio:aut dato ꝙ meᵐ eſſet inſtᵐ ſicut in exēᵒ vbi poᵃ mouens in me⁹ vniforʳ difformi terminato ad gᵐ ſuū ꝯtiᵉ mouebit̄ in illo medio ⁊ nunq̄ȝ ad extremū deueniet:⁊ tn̄ mediāte oī gᵘ finito poſſet ad extreᵐ in tp̄e finito deuenire:ex quo diſtātia ſoluȝ eſt finita. Sed dato tēpoꝛe aliquo in quo mot⁹ ſu⁹ alicui gradui correſpōdebit:in illo tp̄e mediāte illo gᵘ nō poſſet deuenire ad extremū:⁊ ſic imaginandū eſt de intēſione illi⁹ mot⁹.c.que ꝯtinue erit tardioꝛ ⁊ tardioꝛ:⁊ ſic nō ꝓcedit argᵐ de motu ⁊ eius intēſione. Qualʳ ſit p̄n̄t acq̄ri:ſeq̄t̄ ingrere ⁊ p̄ ponunt̄ regule ⁊c̄.

ℂ Tractatus 16ᵘ de inductione gradus ſummi.

Pro materia inductionis gᵘ ſūmi p̄rimi⁹ eſt notādum ꝙ inductio gradus ſummi nō eſt niſi ꝓgreſſio gradus illi⁹ ſeu partialis acq̄ſitio ḡdus illi⁹ quo ad partes ſubiecti:ſicut ſignato vno ſubiecto vniforʳ difformi:⁊ ſit eq̄lis alteratio vndiq̄ȝ: tunc ad punctuȝ min⁹ diſtantē a ſummo citi⁹ deueniet gradus ſūmus: q2 eſt vndiq̄ȝ equalis acq̄ſitio qualitatis:⁊ ſic gradus ſummus citius erit ad vnū punctū iſti⁹ ſubiᵗⁱ:⁊ deinde ad aliuȝ ac ſi eſſet punct⁹ mouēs ſupra ideȝ ſubm̄: illud ſubiectum pertrāſiens partialr:⁊ ſic 1ᵃ ꝓgreſſio ſiue vera ſiue imaginata:vel iſta ꝑticularis acq̄ſitio ḡdus ſummi quo ad p̄tes ſubiecti dr̄ inductio gradus ſummi. ℂ Scd̄o notādum ꝙ velocitas inductionis gradus ſummi attēdit̄ penes ſubm̄ per qd̄ inducit̄.i.penes q̄ntitatē illi⁹ ſubiecti ſic intelligēdo ꝙ ſi duo ſubīa inequalia deducta rarefactiōe ⁊ ꝯdēſatiōe ⁊ in eodeȝ tp̄e fiāt ſumma:ſicut vnū ſubm̄ eſt alio maius:ita inductio gradus ſummi in maius erit velocioꝛ inductione gradus ſummi in min⁹: vt ſi bipedale fiat ſic ꝑtibiliter ſummū qn̄ aliud qd̄ eſt ſolū pedale fit ꝑtibilr ſūmū: in duplo erit velocioꝛ iductio gradus ſummi in bipedale q̄ȝ in pedale. ℂ Iſta deſcriptiōe iductiōis gradus ſummi poſita quedā3 regule ſunt notāde. Prima ſi ſubm̄ vniforʳ difforme terminatū ad ſummū alteret̄ vno gᵘ vniformi ꝑ totum/iſto ſubō aliūde nō moto nec facta mutatiōe illius alterationis per illud ſubȝ gradus ſumm⁹ vniforʳ iducet̄. ℂ Si eniȝ ſubm̄ ſit vniforʳ difforʳ terminatū ad ſummū ſicut puncta min⁹ diſtant ab extremo intēſioꝛi:ita qualitates per iſta puncta ꝑ min⁹ diſtant a ſummo ⁊ equalis erit alteratio ꝯtinue ad oīa puncta:ḡ ſicut puncta ſunt propinquioꝛa extremo intenſioꝛi:ita ad iſta citi⁹ deueniet gradus ſumm⁹:⁊ per ꝯn̄s gradus ſummi⁹ inducet̄ vniforʳ.mot⁹.n. localis eſt vniformis qn̄ ſicut puncta ſunt ꝓpinquioꝛa termino a quo mobile icipit moueri: ita ad illa illud mobile citius veniet:ita eſt de tali gradu inducēdo:⁊ loquoꝛ ſemꝑ de alteratione que eſt acq̄ſitio iſtius q̄litatis qua ſubm̄ eſt vniforʳ difforme terminatū ad ſummū. p̄ᵃ regl̄a
ℂ Si ſit aliquod ſubm̄ vniforʳ difforme alteratū per totuȝ vno gradu vniformi ipſo ſubto aliūde nō moto ipȝ ꝯtinue manebit vniʳ difforme quouſq̄ȝ aliq̄ pars ei⁹ fuerit ſumma:q2 ſi ſit vniformiter difforme ⁊ alteret̄ vno gᵘ vniforʳ: ad oīa puncta eſt equalis q̄litatis acq̄ſitio:ḡ oīa puncta eque diſtabūt ſic in p̄n⁹.ḡ ſicut in p̄n⁹ ipȝ eſt vniforʳ difforme:ita in fine erit vniforʳ difforme. 2ᵃ regl̄a
ℂ Ponit̄ eniȝ hec deſcriptio vniformiter difformis.vȝ.vniforʳ difforme eſt qn̄ cuiuſl3 ꝑtis date gradus medi⁹ vel exiſtēs ad punctū mediū eq̄lr excedit ab extremo intēſioꝛi eiuſdeȝ ꝑtis ſicut ipſe iſti⁹ ꝑtis excedit extremū remiſſius:⁊ p3 regula. Quid vniformit difforme.
ℂ Si aliqd̄ ſit vniforʳ difforme alteratū vno gradu vniformi totū ꝯtinue manebit vniforʳ difforme eq̄li latitudine extēſiue ſic in p̄n⁹ hȝ. 3ᵃ regl̄a
ℂ Et voco illas latiᵗᵉˢ equales extēſiue:quaꝝ extreᵃ intēſioꝛa equalr excedunt extrema remiſſioꝛa earūdem ſicut ſunt latiᵗᵉˢ ab octo vſq̄ȝ ad ſex:⁊ a q̄tuoꝛ vſq̄ȝ ad duo. H p3 ex quo ſemꝑ alterant̄ vno gᵘ vniformi:ad oīa pūcta eq̄lis qualitas acq̄ret̄:ḡ qualitates ad oīa pūcta eq̄lr ſe excedēt ſicut in p̄n⁹: ḡ erit vniʳ difforme eq̄li latitudine extenſiue. Que ſunt latitudines extenſiue equales.
ℂ Si vniforʳ difforme alteret̄ latitudīe vniforʳ difformi/ totū cōtinue manebit vniformiter difforme quouſq̄ȝ aliq̄ pars fuerit ſumma ſeu ſub non gᵘ vel totū fiet vniforme. 4ᵃ regᵃ
ℂ Ad qd̄ ꝓbāduȝ ſic arʳ. Primo ſupponēdo ꝙ ſi ſint tria cōtinue ꝓpoꝛtiōabilia ꝓpoꝛtiōe arithmetica:⁊ ſint aᵒ tria ꝯſilr ꝓpoꝛtiōabilia ꝓpoꝛᵒⁿᵉ geometrica ſicut p̄ma tria:illa etiā ſint ꝯtiᵉ ꝓpoꝛtionabilia ꝓpoꝛᵒⁿᵉ arithmetrica:q2 ſi nō ſint.a.b.c.tres termini p̄mi ꝯtinue ꝓpoꝛˡᵉˢ ꝓpoꝛᵒⁿᵉ arithmetica:ita ꝙ.a.equalr excedat.b. ſicut.b.excedit.c. ⁊ ſint.d.e. f.cōſilr ꝓpoꝛˡᵉˢ geometrice ſicut ſunt.a.b.c.geometrice.arʳ tūc ſic. Uel.d.eſt equale vel ineq̄le.a. Si equale ⁊.d. ꝯſilr eſt ꝓpoꝛˡᵉ.e.⁊.f.ſicut.a.b.c.ergo ſeq̄t̄ ꝙ.b.c.⁊.e.f. iter ſe ſūt equalia:⁊ per ꝯn̄s exceſſus.a.ſuꝑ.b.eſt equalis exceſſui.d. ſupra.e.⁊ exceſſus.b.ſupra.c.eſt equalis exceſſui.e.ſupra.f. Regl̄a ꝓpoꝛtionū.
40.10.20.
A.B. C
8. 6. 4.
D.E. F
Sicut ḡ.a.b.c.ſunt ꝯtinue ꝓpoꝛtionabilia arithmetice:ita d.e.f.ſunt ꝯtinue ꝓpoꝛtionabilia arithmetice. Si.a.ſit maius.d.ḡ ſicut eſt mai⁹.d.ita per plus excedit.b.q̄ȝ.d.e. ꝯn̄ſa p3 per id ſi aliqui termini iequales ſe hn̄t ineq̄li ꝓpoꝛtiōe Regl̄a ꝓpoꝛtionū.

geometrica ad aliq̄s terminos ſicut vnum eſt alio maius:
ita per plus excedit terminum ad quē ꝓportionaṫ: vt vlr
cōſtat. Sit ḡ.a.maius.d.in.g.ꝓpor^e: ⁊ ſeqṫ ꝙ.b.eſt maius
e.in eadē ꝓportione: ſicut eiꝫ.a.ſe hꝫ ad.b.ita.d.ſe hꝫ ad.e.
ḡ ꝑmutatim ſicut.a.ſe hꝫ ad.d.ita.b.ad.e.ſed per poſitū.a.
ſe hꝫ ad.d.in.g.ꝓportione.ḡ.b.ſe hꝫ ad.e.in.g.ꝓportiōe.⁊
cōſilr eſt ꝓportio geometrica.b.ad.c.ſicut eſt.e.ad.f.ḡ erit
g.ꝓportio exceſſus.b.ſupra.c.ad exceſſuꝫ.c.ſupra.f. tenet
ꝯña per ṕdictā nobi^{les}. Et nūc ſic arg^r. Exceſſus.a.ſupra
b.eſt maior exceſſu.d.ſupra.e.in.g.ꝓpor^e: ⁊ ēt exceſſus.c.
ſupra.f.eſt minor in.g.ꝓpor^e exceſſu.b.ſupra.c.ḡ exceſſus
a.ſupra.b.ſe hꝫ in.g.ꝓpor^e ad exceſſum.c.ſupra.f.ꝯña te/
net per ꝟ ꝙ exceſſus.a.ſupra.b.exceſſui.b.ſupra.c.adeq̄/
tur: ḡ exceſſus.a.ſupra.b.ſe hꝫ in.g.ꝓpor^e ad exceſſuꝫ.d.ſu
pra.c.⁊ ad exceſſuꝫ.e.ſupra.f. Sꝫ ſi aliqđ ſe habeat ineq̄li
ꝓpor^e ad aliq̄ duo: iſta duo īter ſe ſunt eq̄lia vt per cōem
animi ꝯceptionē ſatis pꝫ.ḡ ſeqṫ ꝙ exceſſus.d.ſupra.e.eſt
eq̄lis exceſſui.e.ſupra.f.ḡ.d.e.f.ꝯtinue ſunt ꝓpor^{les} ꝓpor^{ne}
arithmetica.pꝫ ḡ ſuppoſitio. Si autē dicaṫ ꝙ.a.ſit minus
d.ideꝫ fiet arg^m ꝯ̄rio arguēdo ꝙ exceſſus.d.ſupra.e.f.erit
maior exceſſu.a.ſupra.b.c.in iſta ꝓportiōe in qua.a.eſt mi
nus.d. ¶ Ex iſto ḡ pꝫ ꝙ ſi aliqđ intēderetṫ latitudine vni/ Corre^m.
formiter difformi lati^{ne} acq̄ſita per illud erit vniformiter
diffor^{me}: q̄a ſi nō ſigneṫ aliq̄ pars iſti^s: ⁊ capianṫ tria pūcta
iſti^s ptis.ſ.extrema ⁊ mediū.⁊ arguiṫ ſic. Illa alteratio eſt
vniformiter diffor^{is}: ḡ alterationes ad iſta tria pūcta ſunt
ꝯtinue ꝓpor^{les} arithmetice: ⁊ ſic̄ iſte alteratiōes ſunt ꝓpor
tionales geometrice: ita q̄litates ad illa pūcta acq̄ſite ſunt
geometrice ꝓpor^{les}: q̄a tp̄s eſt idē: ḡ iſte q̄litates ſunt cōti/
nue ꝓportionales arithmetice. ꝯña iuxta ſuppōneꝫ poſitā
ſatis pꝫ. et ſic de extremis ⁊ medijs cuiuſlibet ptis eſt ar/
guēduꝫ: ḡ cuiuſcūq; ptis date q̄litas ad punctū ei^s mediū
acq̄ſita excedit extremū remiſſius iſtius ptis per q̄ntū ex/
cediṫ a qualitate acq̄ſita extremo eius intēſiori: ⁊ per ꝯñs
iuxta deſcriptionē vniformiter difformis tota q̄litas acq̄/
ſita manebit vniformiter difformis: et q̄litas ṕhabita eſt
vniformiter difformis: ḡ tota qualitas cōpoſita ex his eſt
vniformiter difformis vel vnifor^m. ꝯña ꝓbaṫ. Et ṕ ad ei^s
ꝓbōnē ſupponaṫ ꝙ omne cōpo^m ex duob^s ineq̄lib^s eſt du
plū ad mediū inter illa. Hec ſuppoſitio ꝓbaṫ per 2^{am} ſup/
pōneꝫ pro ꝯ̄ne 3o^e de motu locali: ex qua ſeqṫ ꝙ omne cō
poſitū ex duob^s ineq̄lib^s eſt plus q̄ꝫ dupluꝫ ad omne min^s
medio inter iſta ⁊ minus q̄ꝫ duplū ad omne maius medio
inter iſta. Et ſi aliqđ cōpo^m ex duob^s ſit duplū ad aliqđ 3^m:
id 3^m vel eſt eq̄le vtriq; vel mediū iter iſta. Si.n.iſta duo
ſunt eq̄lia ſolū ꝯſtituūt vnū duplū ad equale vtriq; iſtoꝝ:
vt ſatis pꝫ. Et ſi ſint ineq̄lia ſolū ꝯſtituūt duplū ad mediū
iter i^a: vt ꝓbatuꝫ eſt. Ex his.n.facilr ꝓbaṫ ꝙ omne cōpo^m
ex duab^s latitudinib^s vniformiter difformib^s vel eſt vni/
forme vel vniformiter difforme: q̄a ſi nō ſint.a.b.c.vna la
titudo: ita ꝙ.a.ſit extremū itēſius ⁊.b.gradus medius ⁊.c.
extre^m remiſſius: ⁊ ſint.d.e.f.alia latitudo cuius extre^m in/
tēſius ſit.d.⁊.e.gradus medi^s ⁊.f.extre^m remiſſius: ⁊ coex/
tēdaṫ.d.e.f.latitudo cum.a.b.c.latitudine.arguiṫ ſic.b.eſt
mediū iter.a.⁊.c.ḡ cōpo^m ex.a.c.eſt duplū ad.b.ꝯña tenet
iuxta ſuppōnē: ⁊ ſilr.e.eſt mediuꝫ iter.d.f.ḡ cōpo^m ex.d.f.
eſt duplū ad.e.extēdaṫ ḡ.d.cum.a.⁊.e.cuꝫ.b.⁊.f.cuꝫ.c.⁊ ſe/
quiṫ ex q̄ cōpo^m ex.a.⁊.e.eſt duplū ad.b.⁊ cōpo^m ex.d.⁊.f.
eſt duplū ad.e.ꝙ cōpo^m ex.a.c.⁊.d.f.eſt dupluꝫ ad cōpo^m
ex.b.⁊.e.ꝯñtia tenet per ꝟ q̄lis eſt ꝓportio aliquoꝝ diſtin
ctoꝝ talis eſt ꝓportio coꝝ ꝯiūctoꝝ.ḡ ſeqṫ ꝙ vel cōpo^m ex
d.a.eſt equale cōpoſito ex.c.⁊.f.vel cōpoſitū ex.b.⁊.e.erit
mediū iter iſta duo cōpoſita.ſi ṕ cōpo^m ex illis erit vnifor
me.ſi 2° erit vniformiter difforme: vt notū eſt. Et ſic de oī
pte latitudinis eſt arguēduꝫ ſicut nunc arguitū eſt de tota
latitudine. ꝯñtia ṕcedēs iuxta ſuppōnē ſatis pꝫ. cum ḡ cō
poſitū ex.d.⁊.a.ſit maius q̄ꝫ cōpo^m ex.c.⁊.f.ſequiṫ ꝙ cōpo
ſituꝫ ex.b.e.erit mediū inter iſta: ⁊ ſic 1ª latitudo erit vni/
formiter difformis. Idē arg^m fiet cum extremū remiſſius
ꝯiungaṫ extremo remiſſiori ſiue intēſiori ꝙ tota qualitas
cōpoſita ex his erit vniformiter difformis vl' vniformis.
Sed ſi extremū intēſius vni^s latitudinis ꝯiūgaṫ extremo
intēſiori alterius lati^{nis}: ⁊ extre^m remiſſius extremo remiſ/
ſiori: tota latitudo fiet vniformiter difformis: q̄a tūc cōpo
ſita ex extremis erunt ineq̄lia: ⁊ ſi extre^m remiſſius vnius
latitudinis extremo intēſiori alterius lati^{nis} ꝯiungaṫ: ⁊ ex/
tremū intēſius extremo remiſſiori in caſu fiet totū vnifor
me: ⁊ in caſu vniformiter difforme. ṕmuꝫ pꝫ: ſi ex intēſius
vnius latitudinis equalr excedit extre^m ſuū remiſſius per
q̄ntū extre^m intēſius alterius lati^{nis} excedit ſuū extre^m re/
miſſius ſicut ſi latitudo a 4^{or} vſq; ad duo latitudini a 4^{or}
vſq; ad duo iungereṫ 4^{or} v̄ſus duo: ⁊ tūc fieret vniforme
vt ſex: vel ſi eidē latitudini addereṫ latitudo a duob^s vſq;
ad non g^{um} mō dicto tota latitudo fieret vniformis vt 4^{or}:
fieret etiā vniformiter difformis ſi extrema latitudis ad/
dite magis vel minus ſe inuicē excederēt q̄ꝫ extrema lati/
tudinis ṕhabite. Ex^m de latitudine terminata ad duos gra/
dus: vt ſi latitudini a 4^{or} vſq; ad duo: iūgereṫ latitudo ab
octo vſq; ad 4^{or} extremo intēſiori extenſo v̄ſus extre^m re/
miſſius: tūc erit vnū extremū cōpo^m ex 4^{or} ⁊ 4^{or} que ꝯſti/
tuunt octo: ⁊ aliud extre^m ex duob^s ⁊ octo erit ḡ difforme.
Ex^m de latitudine terminata ad nō gradū vt ſi ṕdicte lati
tudini a duobus vſq; ad 4^{or} iūgaṫ latitudo a 4^{or} vſq; ad
nō gradū modo ṕnotato: tūc vnum extremū erit vt ſex: ⁊
aliud vt 4^{or}. pꝫ ḡ ꝙ ſi latitudo vniformiter difformis ter/
minata ad duos gradus addaṫ alij latitudini ad duos gra
dus terminate ꝙ tota latitudo cōpoſita ex his erit vnifor
miter difformis: vel remanebit qualitas vniformis. Sil'e
eſt de latitudinib^s ad nō gradū terminatis. ſi eiꝫ addātur
adinuicē iſta extrema intēſiora ꝯſtituent g^m duplū ad ſu/
os gradus medios: q̄a ꝯſil'is eſt ꝓportio ipſoꝝ extremoꝝ
adinuicē diuiſoꝝ ad ſua media diuiſim accepta ſicut ipo/
ruꝫ adinuicem cōpoſitoꝝ ad ſua media ſimul iūcta. Si ḡ
extrema intēſiora ſimul iūganṫ, tota latitudo erit vnifor/
miter difformis ad nō g^m terminata. de quacūq; enim pte
iſtius lati^{nis} eſt ſilr arguēduꝫ ſicut ṕus. Et ſi extre^m intēſius
vnius addaṫ extremo remiſſiori alterius, tota erit vnifor/
miter difformis vel vniformis: q̄a illi gradus extremales
ꝯſtituūt g^m dupluꝫ ad gradus medios ſimul iūctos: ḡ cō/
poſitū ex illis medijs erit tunc equale vtriq; extremo: vel
vnū extre^m eſt alio intēſius: ⁊ illud cōpo^m erit mediū iter
illa extrema: vt ṕus arguitū eſt ex ſuppōne. Si ṕ modo to
tuꝫ erit vniforme per ṕargūta. Si 2° modo totū erit vni/
formiter difforme. pꝫ ḡ id tanq̄ꝫ verū. ¶ Cōtra qđ argui/
tur ſic. Sit.a.vniformiter difforme ⁊ altereṫ lati^{ne} vnifor/ ꝯtra 4^{am} reg^{am}.
miter difformi: ⁊ ſit extre^m intēſius alterationis v̄ſus extre
muꝫ intēſius ſubti: tūc ſic.a.eſt vniformiter difforme: ḡ tā
ta eſt latitudo in vna medietate eius ſubti ſic̄ in alia: ⁊ ve/
locius ꝯtinue intēdeṫ medietas intenſior q̄ꝫ medietas re/
miſſior: ⁊ velocitas alterationis attēdiṫ penes latitudinē:
ḡ maior latitudo acq̄reṫ medietati intēſiori q̄ꝫ medietati
remiſſiori: ⁊ ſi equalib^s ineq̄lia addanṫ, que reſultabūt in/
equalia erūt ⁊c̄. ḡ maior ꝯtinue erit latitudo in medietate
intēſiori q̄ꝫ in medietate remiſſiori: ⁊ per ꝯñs nō manebit
vniformiter difformis. ¶ 2° ſic. ſi ad oēm pūctuꝫ.a.acq̄re
tur tāta latitudo ſicut ad extre^m intēſius acq̄rereṫ, totū ꝯti
nue maneret vniformiter difforme: q̄a tūc qualitates ad
oīa pūcta equalr ſe extēderēt ſicut in ṕn^o. ſed nūc ad oēm
punctū itrinſecū erit minor latitudo acq̄ſita q̄ꝫ tūc erit ad
extre^m intēſius: q̄a nō tāta latitudo ſicut tūc: ḡ nūc nō erit

vniformiter difformis.¶ 3º ſic.Si foret vniformiter diſ-
formiter alteratuz per latitudinē vnifor difformē ad nō
gm terminatā:ꝛ nō gradus alterationis fuerit vſus extrem
remiſſius ſubi:tūc gradus medius oz intēdi:ꝛ per ꝯñs in-
ſeq extrem intēſius:g ſi extrem remiſſius equalr īſequeret
mediū per itēſionē ſicut mediū extrem itēſius:tūc tāta ꝯti-
nue eēt diſtātia extremi intēſioris a medio ſicut medij ab
extremo remiſſiori ſicut de trib9 mobilib9 localr eſſet ar-
guēduz:ſed iam iter extrem remiſſius ꝛ mediū erit maior
diſtātia q̄z iter iſta eēt ſi extrem remiſſius itēderet:vt ſatis
pz.g nūc maior erit latitudo in medietate remiſſiori q̄z in
medietate itēſiori:ꝛ per ꝯñs nūc nō erit vnifor diffor. Uel
pōt argm gñalr formari.ſi.n.alteraret latitudine alterationis ꝛ
extrem intēſius ſit vſus extrem intēſius ꝛc̄.medius g velo-
cius īſeq̄ret extrem intēſius q̄z extremū remiſſius īſequet
mediuz:g maior ꝯtinue erit diſtātia gradus medij ab ex-
tremo remiſſiori q̄z extremi intēſioris a medio. Si enim
eq̄uelor īſeq̄ret diſtātia eēt eq̄lis vt pus ꝛc̄.ſeqt g regulaz
Solo nō eſſe verā.¶ Pro ſolone iſtoꝝ argorum pmitus eſt nōm
q hec ꝯñtia nō valet:maior latitudo acqret medietati intē-
ſiori q̄z medietati remiſſiori:ꝛ nūc eſt tāta in medietate intē-
ſiori ſicut in medietate remiſſiori:g in fine erit maior latitu-
do in medietate intēſiori q̄z in medietate remiſſiori.ꝛ hoc lo-
quēdo de maioritate latitudinis extēſiue vel q̄ntitatiue:quātū-
cūq; eīz parua latitudo q̄ntitatiue vel extēſiue pōt eē quā-
tūcūq; magna volueris itēſiue.nā maior vificat ſolū pro
maioritate latitudinis intēſiue ꝛ nō extēſiue:ꝛ minor ſolū vifi-
cat pro maioritate latitudinis extēſiue:ꝛ ſic diuerſimode ſup-
ponunt equalitas ꝛ ineq̄litas in maiori ꝛ in minori.ꝛ ideo
argm nō valet:imo ſtaret q in vna medietate eēt ſemp dep-
ditio latitudinis ꝛ in alia acqſitio:ſic tñ q ꝯtinue maneret
vnifor difformis:ſicut ſi medietas intēſior vnifor diffor-
mis alteraret latitudine alterationis ad nō gm terminata
vſus mediuz punctū toti9 corpis ꝛ itēderet:ꝛ medietas re-
miſſior alteraret ꝯſili latitudine:ita q nō gradus altera-
tionis eēt ad pūctuz mediū toti9 ꝛ remitteret:id manebit
vnifor difforme.nā ad pūctuz mediū ſemp manebit idē
gradus:eo q ibi terminat alteratio ad nō gm ꝛ equuelor
recedet extrem itēſius per itēſionez ab iº gradu medio ſic
extrem remiſſius recedet ab eodē gº per remiſſionē:ꝛ per
ꝯñs vtraq; medietas ꝯtinue erit vnifor difformis equali
latitudine:ꝛ gradus terminās medietatē remiſſiorē ſm ex-
tremuz intēſius terminat medietatē intēſiorē ſm extrem re-
miſſius:g totuz cōtinue erit vnifor difforme:ꝛ ſic nō pce-
dit arm:qa in caſu maioratio latitudinis itēſiue cauſat mi-
norationē latitudinis extenſiue ꝛ ecōtra.¶ Pro 2º negat
ꝯñtia qñ ꝯcludit tūc eſſet vnifor difforme:g nunc nō eſt
vnifor difformis.bñ tñ ſeqt q nūc nō eſt vnifor diffor-
me eq̄li latitudine qua tūc eēt ſed maiori:qa tūc extremre
miſſius per minus diſtaret ab extremo intēſiori q̄z nūc di
ſtabit.¶ Pro 3º negat hec ꝯñtia:ſi extrem remiſſius eque-
uelociter īſeq̄ret mediū ſicut mediū extrem itēſius:tūc fo-
ret tāta diſtātia iter mediū ꝛ extrem itēſius ſicut iter extre-
mū remiſſius ꝛ mediū.nec valet hōc arm niſi iter mediuz ꝛ
extrem intēſius maneret ꝯtinue pciſe tāta diſtātia ſicut in
pnº eſt iter iſta.h ſic pbat.Si extrem remiſſius equuelor
īſeq̄ret mediū ſicut mediū extrem intēſius:tūc iter extrem
remiſſius ꝛ mediuz ꝯtinue eēt tāta diſtātia ſicut in pnº eſt
iter illa:ꝛ iter mediuz ꝛ extrem intēſius ꝯtinue maiorabit
diſtātia:eo q extrem intēſius velocius itēdet q̄z mediū:ꝛ
per ꝯñs ſi extrem remiſſius equalr inſeqt mediū ſicut me-
diuz extrem intēſius:tūc iter extrem remiſſius ꝛ mediū fo-
ret minor diſtātia q̄z iter mediuz ꝛ extrem intēſius.ꝛ ideo
5ª regª argm nō pcedit.¶ Si ſint duo inequalia q̄ntitatiue eodez
gradu per totū alterata ꝛ ad ſūmuz terminata ꝛ ppor ſic

eſt vnū alio minus:ita minorē latitudinē extenm habeat eq̄ue-
lociter inducet gradus ſūmus in illa duo/illis ſubtis aliū-
de nō motis.Hoc.n.ſic pz.ſit eīz.a.maius ſubm ꝛ.b.min9.
ꝛ ponat ſic.b.eſt minus.a.ita minori latitudine ſit vnifor dif-
forme terminatū ad ſūmuz:tūc extq.a.eſt maius.b.aliqua
eſt pars.a.terminata ad ſūmuz eq̄lis.b.que pars ſit.c.ꝛ ar-
guit ſic.a.eſt vnifor diffor:g ppor ſic.c.eſt minus.a.ita
minorē latitudinē hz q̄z.a.terminatā ad ſūmum:ꝛ ppor ſic.b.
eſt minus.a.ita hz minorē latitudinē q̄z.a.terminatā ad ſūmū:
g.b.c.ſunt eq̄lia eq̄li latitudine vnifor difformi terminata ad
ſūmuz ꝛ eodē gº alterabit.b.ſic.c.g eq̄uelociter pciſe indu-
cet gradus ſūmus in.b.ſic in.c.ꝛ eq̄uelociter in.c.ſic in.a.
qa in.a.ꝯtinue vniformiter inducet gº ſūmus per pmā regulā:
g eq̄uelociter inducet gº ſūmus in.b.ſic in.a.pz g ꝯclo ſiue
regula ꝛc̄.¶ Si duo ineq̄lia ad ſūmuz terminata eodē gº 6ª regª
alterent:ꝛ maior ſit pportio q̄ntitatis vni9 ad q̄ntitatē alte-
rius q̄z eſt latitudinis maioris ad latitudinē minoris/tardi9 inducet
gº ſūmus in minus q̄z in maius.¶ Si.n.eēt tanta pportio
q̄ntitatis ad q̄ntitatē pciſe ſicut eſt latitudinis ad latitudinē eq̄ueloci-
ter induceret gº ſūmus in minus ſic in maius vt per pri-
mā ſatis liquet:ſz iam tardius inducit gº ſūmus in minus
q̄z tūc:eo q quilibet pūct9 iſti9 nūc per plus diſtat a ſūmo q̄z
tūc diſtaret vt notū eſt.g nūc tardius inducet gº ſūmus in
minus q̄z in maius:qd fuit pbāduz.¶ Si tñ ſit minor p- 7ª regª
portio q̄ntitatis ad q̄ntitatē q̄z latitudinis ad latitudinē veloci9 indu-
cet gº ſūmus in minus q̄z in maius.hec vt prima declaf.
¶ Si duo vniformiter diffor eadez latitudine terminata ad 8ª regª
ſūmuz eodē gº alterent ꝛ ſint ineq̄lia in q̄ntitate:ppor ſic
vnuz illoꝝ eſt alio maius:ita veloci9 inducet gº ſūmus in
maius q̄z in minus:qa illa ꝛ ēt oēs ptes illoꝝ corrñdentes
eq̄cito fient ſūme:ꝛ p pm in vtrūq; vniformiter inducet gº
ſūmus:ꝛ ſic ſubm eſt maius:ita inductio gº ſūmi per illud
ſubm in tpe eq̄li erit velocior iuxta deſcriptionē inductio-
nis gradus ppoſitā.¶ Si eq̄lia vniformiter diffor eadē 9ª regª
latitudine ad ſūmuz terminata gradib9 ineq̄lib9 alterent ſicut
vnū alio veloci9 alterat:ita veloci9 in ipm veloci9 alteratū
inducet gradus ſūmus q̄z in tardius alteratuz:ſic.n.citius
fiet ſūmuz ſic alteratio eſt velocior ꝛ ſic tps minus eſt re
inductionis p ſubta eq̄lia:ita inductio erit velocior ſic eſt
de oī alio motu.¶ Si ſint duo ineq̄lia eadē latitudine vnifor- 10ª regª
miter diffor terminata ad ſūmuz alterata gradib9 ineq̄-
lib9 vnifor:ita q tāta ſit ppor q̄ntitatis maioris ad q̄nti-
tatē minorē q̄nta alterationis minoris ſubti ad alteratōez
maioris per illa eq̄uelociter inducet gº ſūmus.Sit eīz.a.
maius ꝛ.b.minus ꝛc̄.ꝛ ſit.f.ppor q̄ntitatis.a.ad q̄ntitatez.b.ꝛ
ēt alterationis.b.ad alteratōez.a.tūc p penultimā ſi.a.b.eodē
gº alterarent in.f.ppor veloci9 inducet gº ſūmus in.a.q̄z
in.b.ſz per primā nc in.f.ppor tardius induceret gradus
ſūmus in.a.q̄z ſi alteraret eodē gº quo.b.alterabit:g nunc
eq̄uelociter inducet gdus ſūmus in.a.ſic in.b.pciſe.g ſeqt
ꝯclo.¶ Et ſi ſit maior ppor q̄ntitatis maioris ad q̄ntitatē mi- 11ª regª
noris q̄z alteratiōis minoris ad alterationē maioris velo-
cius inducet gº ſūmus in maius q̄z in min9 cū alijs poſitis
in ꝯne pcedēte.¶ Et ſi ſit minor ppor q̄ntitatis maioris ad 12ª regª
q̄ntitatē minoris q̄z alteratiōis minoris ad alterationē maioris
veloci9 inducet gº ſūmus in minus q̄z in maius.Iſte due p 13ª regª
pprimaz facilr demrantur.¶ Si ſit aliqd vnifor diffor
terminatū ad ſūmuz alteratū latitudine vnifor diffor in nulla
ppor veloci9 vel tardi9 inducet gº ſūmus vel incipit indu-
ci q̄z ſi p totuz alteraret tali gº ſeu extremo latitudinis qd vſus
extrem itēſius ſubti pcedit.Hoc ſic pz.p ſit extrem intēſius
alteratiōis vſus extrem itēſius.a.ſubti.Et arguit ſic.Uelo-
cius incipit gº ſūmus induci in.a.q̄z ſi per totū aliq gradui
itrinſeco illi9 latitudinis alteraret:ſz in infim modica ppor tar-
dius inducet mediāte aliq gradu itrinſeco iſtius latitudis
q̄z mediāte

q̄ mediāte extremo intēſiori:q2 īfinite modica eſt ꝓpor-
tio extremi īteſioris ad aliquē gᵐ īttrinſecū:ḡ in nulla ꝓpor-
tione tardius incipit gradus ſūmus induci q̄ ſi extremo
latiᵉ īteſiori per totū alteraret.ꝯn̄ia pȝ ⁊ maior arguit:
q2 gſcūq3 gradus īttrinſecus hꝫ latiᵉ deē ſi eſt ad certum
pūctū īttrinſecū:⁊ ad oēȝ pūctū aliuȝ iter talē ⁊ extreᵐ intē
ſius eſt velocior alteratio q̄ ad illū pūctuȝ ſignatū gſcūq3
pūct⁹ fuerit:ḡ per ptē talē iter pūctuȝ datū īttrinſecuȝ ⁊ ex-
tremū intēſius citius deueniet gradus ſūmus q̄ ſi per to-
tuȝ gᵐ alterationis ad illū pūctuȝ extrīſē alteraret:⁊ p ꝯn̄s
velocior erit inductio:ḡ ⁊c. Hoc argᵐ tenet de oī gradu in-
trinſeco iſti⁹ latiᵉ:eo q2 qlibet talis gradus eſt ad certum
pūctuȝ īttrinᶜᵘ. ¶ Si ponat extreᵐ remiſſius alterationis
v̄ſus extreᵐ itēſius ſubiti:tūc arguit q2 tardius incipit gra-
dus ſūmus induci q̄ ſi per totū alteraret aliq̄ gᵘ īttrinſeco
iſti⁹ latiᵉ ⁊ infinite modice velocius mediāte aliq̄ gradu
īttrinſeco q̄ mediāte extremo remiſſiori.ſeq̄t ḡ ꝯclō pro
14ª regᵃ vtraq3 eius pte. ¶ Si vnifor' difforme ⁊c.alteraret vna
latiᵉ vnifor' difformi extremo intēſiori alterationis v̄ſus
extreᵐ itēſius ſubiti gradus ſūmus ꝯtinue tardius ⁊ tardi⁹
inducet.Sit eiȝ.a.aliqđ tale:⁊ ſit.c.aliq̄ pars remiſſa eius
nō terminata ad ſūmuȝ:tūc ad extreᵐ remiſſius.c.erit tar-
dior alteratio q̄ erit ad extreᵐ intēſius eiuſdē vt cōſtat.ḡ
latitudo in.c.maiorabit extēſiue:ita q2 extreᵐ intēſius tūc
per plus excedet extremū remiſſius q̄ in pn̄°.Sit ergo.f.
ꝓpor° q̄titatis.a.ad q̄titatē.c.⁊ deē.b.inſtās in quo.c.ter-
minabit ad ſūmuȝ:⁊ ſeq̄t q2 nūc eſt minor q̄.f.ꝓpor° lati-
tudinis q̄litatis extēſe per.a.ad latiᶜ qualitatis que extē-
dit per.c.ꝯn̄a pȝ:eo q2.a.eſt vniformiter diffor':ḡ nūc mi-
nor eſt ꝓportio latitudinis q̄litatis.a.ad latiᶜ que in.b.in-
ſtāti erit per.c.q̄ q̄titatis.a.ad q̄titatē.c.Si ḡ nūc.a.alte-
ret extremo īteſiori illi⁹ latitudinis alterationis:⁊.c.ſilr in
b.in iſtāti:tūc ſeq̄t q2 velocius inducet gradus ſūmus in
a.q̄ in.b.iſtāti in.c.ſicut 6ª ꝯne ſatis pȝ.ſȝ nec nūc in.a.tar-
dius inducet nec inducet in.b.inſtāti in.c.q̄ ſi.a.nūc alte-
raret extremo intēſiori ⁊.c.protūc vt ponit ꝓxima ꝯclō:ḡ
nūc velocius inducit ſeu incipit induci gradus ſūmus in
a.q̄ tūc inducit in.c.⁊ tunc equelociter inducet in.a.ꝓciſe
ſicut in.c.q2 equeuelociter inducet in ptē ſicut in totū:ḡ tūc
tardius inducet in.a.q̄ nūc incipit.⁊ ſic pro oī iſtāti eſt ar-
guēduȝ pro pte que tūc terminabit ad ſūmū.ḡ ſeq̄t ꝯclō.
15ª regᵃ ¶ Si vniformiter difforme terminatū ad ſūmuȝ alteret
latitudo vnifor' difformi extremo remiſſiori alterationis
v̄ſus extreᵐ intēſius ſubiti velocius ⁊ veloci⁹ ꝯtinue indu-
cet gradus ſūmus. Hec ꝓbat vt pꝰ.nā ſit.a.tale ⁊ deē ali-
qđ inſtās ſcilȝ.b.⁊ deē pars ꝓtūc terminata ad ſūmū que
ſit.c.⁊ ſeq̄t q2.c.tūc habebit minorē latitudinē q̄ in pn̄° hȝ
idē.c.eo q2 extreᵐ remiſſius.c.velocius itēdet extremo in-
tēſiori eiuſdē:⁊ ſicut.a.in pn̄° eſt maius.c.ita hȝ maiorē la-
titudinē:eo q2 totum.a.eſt vniformiter difforme:ḡ nūc eſt
minor ꝓportio q̄titatis.a.ad q̄titatē.c.q̄ eſt latiᵉ extēſe
per.a.ad latiᶜ in.b.inſtāti extēdēdā per.c.ḡ per 7ᵃᵐ ꝯneȝ
ſi extremo remiſſiori illi⁹ latiᵉ alterationis nūc itēderet
a.per totū:⁊ in.b.inſtāti eodē gradu itēderet.c.per totuȝ:
velocius inducet gradus ſūmus in.c.q̄ nūc incipit in.a.ſȝ
nūc in nulla ꝓpor' velocius incipit gradus ſūmus induci
in a.q̄ ſi intēderet extremo remiſſiori illi⁹ latitudinis per
totū:vt pȝ per 2ᵃᵐ ptē 13ᵉ ꝯnis.⁊ ſic ēt argueret de.c.in.b.
iſtāti.ḡ ſeq̄t q2 in.b.inſtāti veloci⁹ inducet gradus ſūmus
in.c.q̄ nunc incipit in.a.⁊ tūc eq̄uelociter in.a.ſicut in.c.eo
q2.c.eſt pars.a.ḡ tūc velocius inducet gradus ſūmus in.a.
q̄ nūc incipit:⁊ ſic de omni iſtāti ⁊ de pte ꝓtūc terminata
ad ſūmū:imo ſic argueret pro omni iſtāti poſteriori q2 ve-
locius inducet gradus ſūmus q̄ in iſtāti pꝰri.ḡ ſeq̄t ꝯclō.
16ª regᵃ ¶ Si ſint duo vniformiter difformia eq̄li latitudine ter-
minata ad ſūmuȝ:quoꝝ vnū alteret latitu^m vnifor' diffor-
mi extremo īteſiori alterationis v̄ſus extreᵐ intēſius ſubi:
⁊ aliud alteret extremo remiſſiori illi⁹ latitudis per totuȝ
equecito fiēt iſta ſūma.ꝓbatio. Equecito extrema remiſ-
ſiora illoꝝ fient ſūma:⁊ iſta equecito fiēt ſūma cuȝ extre-
mis ſuis remiſſiorib⁹.ḡ iſta 2° equecito fiēt ſūma. Maior
pȝ:q2 extrema remiſſiora equalr diſtāt a ſūmo ⁊ eq̄lis cō-
tinue erit alteratio ad iª extrema:ḡ equecito erūt iª ſūma.
Et q2 iª equecito erūt ſūma cum ſuis extremis remiſſiori-
bus ꝓbat.nā nō citius erunt ſūma q̄ iª extrema:q2 tūc fo-
rēt ſūma ⁊ ptes oēn̄t remiſſe:qđ eſt incōueniēs.Et q2 ita ci-
to erunt ſūma cum illis extremis ꝓbo:q2 ad oīa pūcta in-
trinſeca ipi⁹.a.citius deueniet gradus ſūmus q̄ ad extreᵐ
remiſſius:⁊ q2 per minus diſtāt a ſūmo ⁊ ita ad illa velo-
cior erit alteratio:⁊ ſilr oīa pūcta īttrinſeca ipius.b.per mi-
nus diſtāt a ſūmo q̄ extreᵐ ſuum remiſſius ⁊ eq̄uelox erit
alteratio ad oīa pūcta īttrinſeca ſicut ad extreᵐ remiſſius.
ſeq̄t ḡ ꝯclō.¶ Qȝ iſta ſit falſa ꝓbat.Et pono q2.a.ſit illud 3 regᵃ
qđ alterat latitudine vnifor' difformi:⁊.b.ſit eq̄lis q̄tita-
tis:⁊ ꝯſiliter diſpoſitū cum.a.alteratū gradu remiſſiſſimo
iſtius latiᵉ alterationis.tūc arguit q2.a.ꝑus erit ſūmuȝ q̄
b.q2 oīa puncta corrn̄dētia.a.⁊.b.equalr diſtāt a gᵘ ſūmo:
⁊ velocior erit alteratio ad oēm pūctuȝ.a.itrinſecū q̄ ad
pūctuȝ corrn̄dētē in.b.ḡ ꝯtinue velocior erit inductio gra-
dus ſūmi in.a.q̄ in.b.⁊.a.⁊.b.ſunt equalia q̄titatiue:ḡ ci-
tius deueniet gradus ſūmus per.a.q̄ per.b.¶ Hoc cōfir-
mat.ſi ad oēm pūctuȝ.a.foret eq̄lis alteratio ſicut ad pun-
ctū corrn̄dētē in.b.tūc equecito fiēt iſta ſūma.ſed nūc ad
oēm pūctuȝ.a.citius deueniet gradus ſūmus q̄ tunc deue-
niret:ḡ nᶜ citius fiet ſūmum q̄.b.¶ 2° arguit ſic.Oīs lati- 2°
tudo vnifor' difformis corrn̄det alicui gradui īttrinſeco:ḡ
ſi.a.alteret tali gᵘ:ita cito fiet ſūmuȝ ſicut nūc:⁊ tūc citius
fiet ſūmuȝ q̄.b.q2 per totuȝ.a.tūc foret velocior alteratio
q̄ per.b.ḡ nūc citius fiet.a.ſūmuȝ q̄.b.¶ 3° arguit ſic.Di- 3°
uido.a.in ptes ꝓporˡᵉˢ v̄ſus extreᵐ remiſſius:⁊ etiā.b.tunc
q̄cūq3 pars ꝓporˡⁱˢ.a.citius fiet ſūma q̄ pars ꝓporˡⁱˢ cor-
rn̄dēs in.b.⁊ totuȝ eſt ꝓciſe cōpoſitū ex oībus ſuis ptibus
ꝓportionabilib⁹:ḡ citius fiet.a.ſūmuȝ q̄.b.¶ Cōcedēda Solo
eſt ꝯclō.Et ad pᵐ argᵐ negāda eſt hec ꝯn̄ia:ad oēȝ pūctuȝ
a.eſt ita intēſa q̄litas ſicut ad pūctuȝ corrn̄dētē in.b.⁊ ve-
locior erit alteratio ad oēm pūctuȝ.a.q̄ ad pūctuȝ corrn̄-
dētēȝ in.b.ḡ velocius ꝯtinue inducet gradus ſūmus in.a.
q̄ in.b.q2 ⁊ ſi pars ſm ſe totā remiſſa ipius.a.cōtinue erit
eque intēſa cuȝ pte ſm ſe totā remiſſa ipius.b.pars tñ ſm
ſe totā remiſſa illi⁹.a.ꝯtinue erit minoris q̄titatis q̄ pars
ſm ſe totaȝ remiſſa ipius.b.ideo lȝ velocior erit alteratio
in.a.q̄ in.b.ꝯtinue:nō ſeq̄t q2 ꝯtinue velocius inducet gra-
dus ſūmus in.a.q̄ in.b.¶ Ad 2ᵐ argᵐ qñ arguit q2 altera-
tio in.a.corrn̄det alicui gradui īttrinſeco vt ſic extēdit ꝯce-
dit.Et qñ arguit vltra:ḡ ſi.a.alteraret iº gradu ꝯtiᵉ eque-
cito ꝓciſe fiet ſūmuȝ ſicut nunc:nō valet ꝯn̄tia:q2 tunc nō
foret alteratio ꝯtinue per eq̄lē ptē ſicut nunc eſt:⁊ ad ali-
quē punctū tūc foret multo intēſior alteratio q̄ nunc eſt.
¶ Ad 3ᵐ argᵐ ꝯcedit q2 q̄libet pars ꝓporˡⁱˢ.a.ſm illā diui-
ſionē citius erit ſūma q̄ pars ꝓporˡⁱˢ corrn̄dēs in.b.ḡ totū
a.citius erit ſūmuȝ q̄.b.negāda eſt ꝯn̄tia. Qȝ ꝯn̄tia nō va-
leat ꝓbat per exᵐ.capiant duo pedalia ⁊ diuidant in par-
tes ꝓporˡᵉˢ.⁊ pono q2 in qualibet pte iſtius hore ꝓporˡⁱˢ p-
tranſeant due ptes ꝓportionales vnius:⁊ in q̄libet pte ꝓ-
portionali hore ſoluȝ vna pars alterius ptrāſeat:tūc que-
cūq3 pars vnius citius ptrāſitur q̄ pars ꝓportionalis alte-
rius corrn̄dēs:vt ſatis pȝ.⁊ tñ iª duo equecito erūt ptranſi-
ta:q2 ſemp erit ꝓportio dupla ptiuȝ ptrāſitaꝝ vni⁹ ad nu-
merū ptiuȝ ptrāſitaꝝ alterius:ḡ cum īfinite ptes erunt p-
trāſite vni⁹:ſeq̄t q2 īfinite ptes erunt ptrāſite alterius: q2.

aliter vni⁹ numeri ad aliū ſoꝛet īfinita ꝓportio. Sȝ ꝑtrā-
ſitis īfinitis ꝑtibus ꝓportionabilib⁹ illoꝝ ſpatioꝝ erunt tᵃ
ſpatia ꝑtrāſita: eo ꝙ ſua mobilia incipiūt moueri in extre
mo vbi ꝑtes maiores terminant̄. ⁊ ideo nō valet ꝯñia fa
cta. ¶ Ad ſolonē͞ȝ.n.ꝑmi argᵐ: ⁊ pro maiori explanatione
17ª reg² māc due ꝯnes ſunt notande: quaꝝ pᵃ eſt hec. ¶ Si ſit ali-
quid vniforᵉ diſſorme terminatū ad ſūmuȝ alteratū lati-
tudine alterationis vniforᵉ diſſormi extremo itēſiori alte
rationis v̄ſus extreᵐ intēſius ſubti: ad nō gᵐ remitteret̄ in-
ductio gradus ſūmi, nulla facta aliūde mutatiōe. Hec cō-
cluſio pȝ dupl̄r. ꝑ ſic. Sit.a.id alteratuȝ latitudine tali: vt
ponit̄ in caſu ꝑcedēti extremo intēſiori alterationis v̄ſus
extreᵐ intēſius.a. et ponat̄ gr̄a argᵗⁱ ꝙ extreᵐ intēſius illi⁹
alterationis ſit dupᵐ ad extreᵐ remiſſius eiuſdē: ⁊ alteret̄
b. extremo remiſſiori iſtius latitudinis: tūc equecito deue
niet gradus ſūmus per.a.b. vt pȝ. Et nunc veloci⁹ incipit
gradus ſummus induci in.a. q̄ȝ in.b. vt ꝯſtat: q̄a.a.⁊.b. ſunt
oīno eque intēſa. Et ad oēm pūctuȝ v̄ſus extreᵐ itēſius.a.
eſt velocioꝛ alteratio q̄ȝ puncto coꝛr̄ndēti in.b. ḡ aliq̄n tar
dius inducet̄ gradus ſūmus in.a. q̄ȝ in.b. q̄a aliter citi⁹ fie-
ret.a. ſūmuȝ q̄ȝ.b. ꝯñs falſum. Et ſic ſeq̄t̄ ꝙ aliq̄n equeue-
lociter inducet̄ gradus ſūmus in.a. ſic̄ in.b. Det ḡ tale in-
ſtans: ⁊ ſeq̄t̄ ꝙ pars remiſſa ipſi⁹.a. tunc erit in duplo mi-
noꝛ q̄ȝ pars remiſſa ipſius.b. eo ꝙ alteratio ad extreᵐ intē-
ſius ꝑtis remiſſe.a. erit dupla ad alteratonē ꝑtis coꝛr̄ndē
tis.b. ⁊ ſi eq̄uelocᵉ inducerent̄ gradus ſūmus in ineq̄lia eadē
latiᵗᵉ vniforᵉ diſſormi reḡrit̄ ꝙ tāta ſit ꝓportio alteratio-
nis minoꝛis ad alteratōeȝ maioꝛis quāta q̄ñtitatis ad q̄ñti-
tatē ſi gradib⁹ vniforᵇᵘˢ alterent̄: vt ponit 10ª ꝯclō. Sȝ per
13ᵃᵐ in nulla ꝓpoꝛᵗᵉ veloci⁹ vel tardius inducerent̄ gradus
ſūmus in aliq̄ inſtāti q̄ȝ tunc ſi extremo itēſiori iſti⁹ latitu-
dinis alterarent̄ per totuȝ: ḡ cuȝ extreᵐ itēſiuo alterationis
ſit dupluȝ ad extreᵐ remiſſius eiuſdē: pȝ ꝙ pro iſto inſtāti
in quo ḡdus ſūmus eq̄uelocᵉ inducet̄ ꝑciſe in.a. ſic̄ in.b. erit
quātitas ꝑtis remiſſe.a. ſubdupla ad q̄ñtitatē ꝑtis remiſſe
b. ⁊ in eq̄li tp̄e ꝑciſe fiēt ille ꝑtes ſūme: ḡ aliq̄n poſt id in-
ſtans in duplo tardi⁹ inducet̄ ḡdus ſūmus in.a. q̄ȝ in.b. eo
ꝙ tunc erit pars remiſſa.a. ſubdupla ad ꝑtē remiſſam.b.
Signet̄ ḡ id iſtās in quo in duplo tardi⁹ inducet̄ in.a. q̄ȝ in
b. ⁊ ſeq̄t̄ ꝙ pars remiſſa.a. tunc erit in q̄druplo minoꝛ q̄ȝ
pars remiſſa.b. q̄a ſi pars remiſſa.a. tūc eēt ſubdupla ꝑci-
ſe ad ꝑtē remiſſam.b. eq̄uelocᵉ inducerent̄ gradus ſūmus in
a. ſic̄ in.b. vt argutū eſt. ſȝ nūc in duplo tardi⁹ inducet̄ gra-
dus ſūmus in.a. q̄ȝ tunc inducerent̄ vt pȝ: ḡ nunc eſt q̄ñtitas
a. in duplo minoꝛ q̄ȝ tunc eēt: ⁊ per ꝯñs in tᵒ iſtāti in quo gᵘˢ
ſūmus in duplo tardius inducet̄ in.a. q̄ȝ in.b. erit quātitas
ꝑtis remiſſe.a. in q̄drup⁹ minoꝛ ꝑte remiſſa.b. ⁊ ſi ſic aliq̄n
in q̄druᵖ tardi⁹ inducet̄: q̄a poſt illud iſtās eq̄cito ꝑciſe iſta
pars remiſſa.a. ſubq̄drupla erit ſūma ſic̄ pars remiſſa.b.
q̄drupla: dato ḡ tali iſtāti in quo in q̄druplo veloci⁹ indu-
cet̄ ḡdus ſūmus in.b. q̄ȝ in.a. ⁊ ſeq̄t̄ per ꝑargūta ꝙ tūc erit
q̄ñtitas ꝑtis remiſſe.a. ſuboctupla ad q̄ñtitatē ꝑtis remiſſe
b. ⁊ ſic poſt in octuplo tardius inducet̄ in.a. q̄ȝ in.b. ⁊ ſic in
infiᵐ: ita ꝙ ꝓpoꝛᵒ q̄ñtitatis ꝑtis remiſſe.b. ad q̄ñtiᵗᵃ ꝑtis re-
miſſe.a. excedit ꝓpoꝛᵉᵐ inductiōis gᵘˢ ſūmi in.b. ſupra indu
ctionē gradus ſūmi in.a. per ꝓpoꝛᵉᵐ duplā. Si.n. ꝯſilis eēt
alteratio in ꝑte remiſſa.b. ſic̄ in ꝑte remiſſa.a. tūc eq̄lis eēt
ꝓportio q̄ñtitatis ꝑtis remiſſe.b. ſupra q̄ñtitatē ꝑtis remiſ-
ſe.a. ſic̄ inductiōis ſupra inductiōeȝ ⁊c̄. Sȝ nunc pro oī in-
ſtāti in duplo tardi⁹ inducet̄ gᵘˢ ſūmus in.b. q̄ȝ tūc: q̄a tunc
alteratio ad extreᵐ itēſius eēt in duplo maioꝛ in.b. q̄ȝ nūc
eſt. Et q̄liſcūq̄ȝ aliq̄n erit ꝓpoꝛᵒ q̄ñtitatis remiſſe ꝑtis.b. ſu-
pra q̄ñtitatē ꝑtis remiſſe.a. talis poſtea erit inductionis ſu-
pra inductiōeȝ: eo ꝙ bē ꝑtes eq̄cito erūt ſūme: ḡ cuȝ indu-
ctio ḡdus ſūmi in.b. ꝯtiᶜ manebit vniformis: ſeq̄t̄ ꝙ in iſiᵐ.
remittet̄ inductio ḡdus ſūmi in.a. qđ fuit ꝓbanᵐ. ¶ Uel 2
ſic arᵉ. Signet̄ illis inſtās in quo equeuelocᵉ ꝑciſe inducet̄
ḡdus ſūmus in.a. ſic̄ in.b. ⁊ ſeq̄t̄ vt arguuȝ eſt: ꝙ tūc pars
remiſſa.a. ſm̄ ſe totā erit in du⁹ minoꝛ tota ꝑte remiſſa.b.
Sit ḡ.c. tunc eq̄lis toti ꝑti remiſſe.a. ⁊ ꝯſil̄r diſpoᵐ ⁊ alte-
ret̄ tunc eodē gᵘ quo.b. ⁊ ſeq̄t̄ ꝙ tunc veloci⁹ inducet̄ gra-
dus ſūmus in.a. q̄ȝ in.c. q̄ꝛ alteratio erit velocioꝛ ⁊ oīa alia
erunt paria: ⁊ pars illa.a. ita cito fiet ſūma ſic̄.c. ḡ poſt id
inſtās eq̄uelocᵉ inducet̄ gᵘˢ ſūmus in.a. ſicut in.c. Det ḡ tale
inſtās ⁊ ſeq̄t̄ vt ꝑus ꝙ pars remiſſa.a. erit in duplo minoꝛ
ꝑte remiſſa.c. ſit ḡ.d. tale ſic̄ tunc erit pars remiſſa.a. ⁊ alte
ret̄ eodē gᵘ quo.b. ⁊ ſeq̄t̄ vt ꝑus ꝙ tunc veloci⁹ inducet̄ in
a. q̄ȝ in.d. ⁊ eq̄cito fiet ſūma: ⁊ tunc erit pars remiſſa.a. ⁊ to
tuȝ.d. eq̄lis q̄ñtitatis.a. ḡ aliq̄n poſt eq̄uelocᵉ inducet̄ ḡdus
ſūmus in.a. ſic̄ in.d. ⁊ ſic in iſiᵐ. cuȝ ḡ in.c. inducet̄ gradus
ſūmus in duplo tardius q̄ȝ in.b. ⁊ ſic in iſiᵐ. ſeq̄t̄ ꝙ in iſiᵐ
veloci⁹ inducet̄ gradus ſūmus in.b. q̄ȝ in.a. ⁊ ſic ſeq̄t̄ ꝙ in
a. remittet̄ inductio ḡdus ſūmi ad non gᵐ; qđ fuit ꝓbanᵐ.
¶ Si volueris hēc argᵐ gn̄ale dicas ſic. ſit.f. ꝓpoꝛᵒ extre-
mi itēſioꝛis iſti⁹ alterationis ad extreᵐ remiſſius eiuſdē: ⁊
alteret̄.b. extremo remiſſioꝛi vt ꝑus. Tunc argᵉ ſicut ꝑus.
equecito fient.a.⁊.b. ſūma: ⁊ veloci⁹ incipit gradus ſūmus
induci in.a. q̄ȝ in.b. ḡ aliq̄n eq̄uelocᵉ ꝑciſe inducet̄ in.a. ſicut
in.b. ⁊ per ꝯñs in tᵒ inſtāte erit.f. ꝓportio q̄ñtitatis ꝑtis re-
miſſe.b. ad q̄ñtitateȝ ꝑtis remiſſe.a. ⁊ eq̄cito fient iſte ꝑtes
ſūme: ḡ poſt in.f. ꝓpoꝛᵉ tardius inducet̄ gradus ſūmus in
a. q̄ȝ in.b. ⁊ ſic erūt tunc due.f. ꝓpoꝛᶜˢ q̄ñtitatis ꝑtis remiſ-
ſe.b. ad ꝑtē remiſſam.a. vt ꝑus arguebat̄ de duab⁹ ꝓpoꝛ-
tionib⁹ duplis: ⁊ per ꝯñs poſt in duab⁹.f. ꝓpoꝛᵇᵘˢ velocius
inducet̄ in.b. q̄ȝ in.a. ⁊ ſic in iſiᵐ ſemꝑ.f. ꝓpoꝛᶜᵉ maioꝛādo
per vnā.f. ꝓpoꝛᵉᵐ vt ꝑus arguuȝ eſt de ꝓpoꝛᵇᵘˢ duplis. Idē
argᵐ pōt formari de illis īfinitis ⁊ facilius vt in ꝓpoꝛᵉ du
pla arguuȝ eſt. ¶ 3ᵒ arguit̄ ad idē. Ad cuius ꝓbationē eſt 18ª reg²
nōnᵐ. ꝓ ꝙ ſi maius ⁊ minus ſint ꝯſil̄r diſpoſita ⁊ alterata
gradib⁹ ineq̄lib⁹: ita ꝙ maius gradu remiſſioꝛi alteret̄ et
velocius inducat̄ gradus ſūmus in maius q̄ȝ in minus ꝓ-
portio q̄ñtitatis ad q̄ñtitatē excedit ꝓpoꝛᵉᵐ inductionis ad
inductionē per tātā ꝓpoꝛᵉᵐ quāta eſt alteratiōis ad altera-
tionē. Hoc ſic pȝ. Sint eiȝ.a. maius ⁊.b. minus ꝯſil̄r diſpo
ſita: ⁊ alteret̄.a. gradu in.f. ꝓpoꝛᵉ remiſſioꝛi q̄ȝ.b. inducat̄
tn̄ in.a. velocius gradus ſūmus q̄ȝ in.b. vt per 11ᵃᵐ conſtat
eſſe poſſibile: ⁊ ſit.c. ꝓportio q̄ñtitatis ad q̄ñtitatē maioꝛ q̄ȝ
eſt.f. tunc ſic arguit̄. Si eodē gradu alteret̄.a. ſicut.b. tunc
inducet̄ gradus ſūmus in.a. in.c. ꝓpoꝛᵉ velocius q̄ȝ in.b.
vt ponit 8ª ꝯclō: ſȝ nunc in.f. ꝓpoꝛᵉ tardius inducet̄ ḡdus
ſūmus in.a. q̄ȝ nunc: vt pȝ per 9ᵃᵐ ꝯnē: q̄a nunc in.f. ꝓpoꝛᵉ
tardius alteraret̄.a. q̄ȝ nunc alteraret̄: ergo.c. ꝓportio ex-
cedet ꝓpoꝛᵉᵐ que eſt ꝓportio inductiōis gradus ſūmi in.a.
ad inductionē gradus ſūmi in.b. per.f. ꝓpoꝛᵉᵐ. Si eiȝ duo Regla ꝓportionū
ineq̄lia cōparent̄ ad 3ᵐ in ꝓpoꝛᵉ maioꝛis ineq̄litatis quā-
ta eſt ꝓportio maioꝛis ad minus iſtoꝝ duoꝝ per tātaȝ ꝓ-
portionē excedit ꝓportio maioꝛis ad 3ᵐ ꝓportionē mino-
ris ad 3ᵐ: eo ꝙ ꝓportio maioꝛis ad id 3ᵐ deducit̄ ex ꝓpoꝛ
tione maioꝛis ad minus ⁊ ex ꝓpoꝛᵉ minoꝛis ad 3ᵐ: ḡ cuȝ.c.
ſit ꝓportio q̄ñtitatis ad q̄ñtitatē. pȝ ḡ ⁊c̄. ¶ 2ᵒ notādū ꝙ ſi 19ª reg²
maioꝛ ꝓportio ſit q̄ñtitatis ꝑtis remiſſe maioꝛis ad ꝑtē
remiſſam minoꝛis q̄ȝ inductiōis gradus ſūmi in maius ad
inductioneȝ gradus ſūmi in minus: ꝓportio q̄ñtitatis ꝑtis
remiſſe maioꝛis ad q̄ñtitatē ꝑtis remiſſe minoꝛis maiora-
bit̄ deducta rarefactione ⁊ ꝯdēſatione ⁊ alijs motibus in
ꝑtib⁹. Hoc ſic pȝ. Sit eiȝ.a. maius ⁊.b. minus in.c. ꝓpoꝛᵉ:
tunc ſi in.c. ꝓportione velocius inducet̄ gradus ſūmus in
a. q̄ȝ in.b. ꝯtinue maneret.c. ꝓportio q̄ñtitatis ꝑtis remiſſe
a. ad q̄ñtitateȝ ꝑtis remiſſe.b. eo ꝙ pars remiſſa nō mino-
rat̄ niſi per inductionē gradus ſūmi: ſȝ nunc eſt minoꝛ q̄ȝ

ẽ. ꝓportio inductionis gradus ſũmi in.a.ad inductionem
gradus ſũmi in.b.ġ nõ in.c.ꝓportionẽ velocius minoraẽ
pars remiſſa.a.ꝗ̃ pars remiſſa.b.⁊ eſt.c.ꝓportio q̃ntitatiſ
ad q̃ntitatẽ ⁊c̃.ġ ꝓportio q̃ntitatis remiſſe ptis.a.ad ptẽ re
3 miſſam.b.maioraẽ:qḋ fuit ꝓbandũ. ℭ Per h̃ faciliter demõ
ſtraẽ ȝclo 17ª. Ponaẽ eni; q̃ .a.altereẽ latitudine vniforr̃
difformi extremo inteſiori v̇ſus extremũ inteſius ſubito:⁊ ſemp̱
altereẽ tota pars remiſſa.a.latitudine illa ſicut nunc eſt de tota
a.⁊ altereẽ.b.oĩno ſilr̃.a.extremo remiſſiori iſtius latitudinis:⁊
ſic ſit.f.ꝓportio extremi inteſioris iſtius latitudinis ad extremũ re
miſſius euiſdẽ:tunc ex̄cito fient.a.⁊.b.ſũma:vt ꝓbat ȝclo
16ª.⁊ velocius incipit ġdus ſũmus induci in.a.ꝗ̃ in.b.⁊.a.⁊
b.ſunt oĩno eq̃lia:ġ aliq̃ñ tardius inducet ġdus ſũmus in.a.
ꝗ̃ in.b.deẽ ġ tale inſtãs:⁊ ſeqẽ q̃ pars remiſſa.b.ſit maior
ꝗ̃ pars remiſſe.a.ġ ſi pars remiſſa.a.nũc per totũ altereẽ
gº inteſiſſimo illius latitudinis alterationis ꝓportio q̃ntitatis
ptis remiſſe.b.ad partẽ remiſſam.a.excedit ꝓportionẽ indu
ctionis gradus ſũmi in.b.ad inductionẽ gradus ſũmi in.a.
per.f.ꝓportionẽ:vt pȝ per 18ª ȝnẽ.⁊ nõ in nulla ꝓportiõe ve
locius vel tardius induceẽ gradus ſũmus in.a.ꝗ̃ ſi altera
reẽ extremo inteſiori illius latitudinis:vt ponit 13ª ȝclo.ġ ꝓportio
q̃ntitatis ptis remiſſe.b.ſupra q̃ntitatẽ ptis remiſſe.a.exce
dit ꝓportionẽ inductiõis gradus ſũmi in.b.ad inductiões gra
dus ſũmi in.a.p.f.ġ per 19ª ꝓportio q̃ntitatis ptis remiſſe
b.ad q̃ntitatẽ ptis remiſſe.a.maioraẽ:⁊ ſic pro oĩ inſtãti po
ſteriori eſt arguẽdũ q̃ ſemp̱ erit maior ꝓportio q̃ntitatis
ptis remiſſe.b.ad q̃ntitatẽ ptis remiſſe.a.ꝗ̃ inductiõis gra
dus ſũmi in.b.ad inductionẽ gradus ſũmi in.a.ġ ꝓportio
q̃ntitatis ptis remiſſe.b.ſupra quãtitatẽ ptis remiſſe.a.ȝtĩe
In h̃ cõ ſiſtit uis arg^m. maiorabiẽ poſt inſtãs datũ. ℭ Ex h̃ argr̃ q̃ in infinitũ maio
rabiẽ ꝓportio inductionis in.b.ſupra inductionẽ in.a.q̃a
ſi nõ:ſit q̃ maiorabiẽ ꝓportio tãtũ ad gradũ finitum.ſ.ad.c.
ꝓportionẽ ⁊c̃.arguiẽ ſic. Proportio q̃ntitatis ptis remiſſe.b.
ad q̃ntitatẽ ptis remiſſe.a.ȝtinue excedet inductionẽ gra
dus ſũmi in.b.ad inductionẽ gº ſũmi in.a.per.f.ꝓportionẽ vt
ꝓargr̃.Si ġ ꝓportio inductionis ġdus ſũmi in.b.ad indu
ctionẽ gº ſũmi in.a.deſineret ad.c.ꝓportionẽ:ſeqẽ q̃ ante finẽ
erit maior ꝗ̃ ꝓportio q̃ntitatis ptis remiſſe.b.ad q̃ntitatẽ
ptis remiſſe.a.que ptes exq̃ecito fiẽt ſũme.ſ.in fine tp̱is:ġ
ante finẽ erit inductio gº ſũmi in.b.plus ꝗ̃ in.c.ꝓportiõe
maior inductione gº ſũmi in.a.ġ nõ ſolũ maiorabiẽ ꝓportio
inductiõis gº ſũmi in.a.ad.c.ꝓportionẽ.⁊ ſic de oĩ alio gº fini
to ꝓportionis eſt arguẽdũ:ġ in infinitũ maiorabiẽ ꝓportio indu
ctionis gº ſũmi in.b.ſupra inductionẽ gº ſũmi in.a.⁊ in.b.
ȝtĩe manebit vniformis:ġ in infinitũ remitteẽ in.a.qḋ fuit
20ª regª ꝓñie inteñtũ. ℭ 2ª ȝclo notãda eſt hec. Si vniforr̃ difforme
terminatũ ad ſũmũ altereẽ latitudine alteratiõis vniforr̃ dif
formi extremo remiſſiori illius alterationis ȝtĩe v̇ſus extremũ
inteſius totius ptis ſim ſe totã remiſſe:⁊ extremo inteſiori al
terationis quieſcẽte ad extremũ remiſſius ſubito nulla facta
mutatiõe aliũde per illud in infinitũ inteñdeẽ inductio gº ſũmi.
H̃ deduciẽ ſicut ȝclo ꝑcedẽs:vbi cũ arguebaẽ q̃ aliq̃ñ in
duplo velocius induceẽ gº ſũmus in.b.ꝗ̃ in.a.⁊ in q̃druplo
velocius:⁊ ſic in infinitũ.nũc arguẽ q̃ in duplo velocius aliq̃ñ
induceẽ in.a.ꝗ̃ in.b.⁊ in q̃druplo velocius:⁊ ſic in infinitũ tar
dius.n.nunc incipit induci in.a.ꝗ̃ in.b.⁊ ſic ſeqẽ ȝclo ma
Pñª ȝclo ꝯ ꝑdictas regulas: ⁊ eſt. 21. regula i ordie. nifeſte que eſt ȝceſſa. ℭ Contra iſtas ȝnes argr̃ ſic. Ex iſtis
ſeqẽ q̃ in.a.ſtãte alteratione gº ſũmus vniforr̃ induceẽ:⁊
ad oẽs eius pũctus inteñdeẽ alteratio vltra duplũ:⁊ tñ in infinitũ
tarde induceẽ gº ſũmus in idẽ.a.ipſo aliũde nõ variato.
Et q̃ hec ſit falſa arguiẽ.ex quo ad oẽs punctũ alteratio inteñ
diẽ potiº:ſeqẽ inteſio inductionis gº ſũmi ꝗ̃ eius remiſſio
ad nõ gradũ. Altereẽ.a.vniforr̃ difforme terminatũ ad ſũmũ
gũ vniformi vt 4ª:⁊ altereẽ.b.ſilr̃ q̃litatiue ⁊ quãtitatiue
ipſi.a.mediãte latitudine alteratiõis vniforr̃ difformi a.18.vſq̃

ad.10.que latitudo ſemp̱ extẽdaẽ vniforr̃ per ptẽ remiſ
ſam.b.extremo remiſſiori v̇ſus extremũ remiſſius.b.⁊ inteñ
daẽ alteratio ad oẽm punctũ.a.ita q̃ ad oẽm pũctũ corre
ſpõdeat alteratio eidẽ gradui ſicut ad pũctũ corrñdẽtẽ in
b.⁊ ſeqẽ q̃ per.a.vniformiter induceẽ gradus ſũmus ſtã
te alteratione:ex eo q̃ alteraẽ vno gradu vniformi ad oẽm
eius pũctũ:⁊ inteñdiẽ alteratio vltra duplũ: q̃a ad gradũ ad
pũctũ corrñdẽtẽ in.b.⁊ nũc ad oẽm pũctũ.a.eſt plus ꝗ̃
in duplo remiſſior alteratio ꝗ̃ ad pũctũ corrñdẽtẽ.b.vt
pȝ.ġ pȝ iſta ꝑticula. Et q̃ infinitũ tarde induceẽ ġdus ſũ
mus in idẽ.a.ꝓbaẽ:q̃a infinite tarde induceẽ gradus ſum
mus in.b.⁊ eq̃uelociter ȝtinue induceẽ gradus ſũmus in.a.ſi
cut in.b.ꝑciſe:ġ infinite tarde in.a.ȝña pȝ ⁊ maior ſilr̃ per
ȝnẽ ꝓximã.⁊ minor arguiẽ. Eidẽ gradui corrñdebũt al
terationes ad oẽm pũctũ.a.ſicut ad pũctũ corrñdẽtẽ in
b.vt poniẽ:⁊ ad oẽm pũctũ.a.eſt inteſio ꝑciſe vſq̃ ad in
ſtans in quo gradus ſũmus deueniet ad pũctũ corrñdẽtẽ
b.vt ſuppono:ġ ad oẽm pũctũ.a.ex q̃ecito ꝑciſe deueniet
gradus ſũmus ſicut ad pũctũ corrñdẽtẽ in.b.ȝña tenet
per h̃ q̃ oĩa puncta.a.⁊.b.corrñdẽtia equalr̃ diſtãt a gra
du ſũmo.ġ ſeqẽ q̃ eq̃uelocr̃ ȝtinue induceẽ gradus ſũmus
in.a.ſicut in.b.ġ ſequiẽ ȝclo. ℭ Itẽ ſequiẽ q̃ in.a.b.ſubiectis 2ª ȝclo ⁊ ẽ regula 22ª.
oĩno ſilia eodẽ gradu alterata ſtãte alteratiõe eq̃uelocr̃ in
duceẽ gradus ſũmus:⁊ ad oẽm pũctũ.a.inteñdeẽ alteratio
ad gradũ plus ꝗ̃ in duplo inteſiorẽ ꝗ̃ ad pũctũ corrñdentẽ
b.⁊ tñ infinite velocius induceẽ gradus ſũmus in.b.ꝗ̃ in.a.
imo ſeqẽ q̃ in infinitũ inteñdeẽ inductio gradus ſũmi in.b.
⁊ in infinitũ remitteẽ in.a.⁊ plus ꝗ̃ in duplo velocius inteñ
deẽ alteratio ad oẽs pũctũ.a.⁊c̃. Ex h̃ videẽ impoſſibile:q̃a
ſi alteratio.a.velocius inteñdiẽ ꝗ̃ in.b.videẽ q̃ ſemp̱ eẽt ve
locior inductio gradus ſũmi in.a.ꝗ̃ in.b. Qz tñ hec cõclu
ſio ſequaẽ arguiẽ ſic. Ponaẽ de.a.vt prius:⁊ ſit iſta inteſio al
terationis ad oẽm pũctũ.a.vniformis vt ȝſtat eẽ poſſibi
le:eo q̃ ab omni gradu vſq̃ ad quẽcũq̃ aliũ põt in q̃cũq̃ ma
gno tp̱e vel paruo inteñdi vniforr̃:⁊ ſit.b.etiã alteratũ gra
du vt 4ª:qḋ.b.ſit oĩno ſilr̃ ipſi.a.⁊ ſeqẽ q̃ ſtãte alteratio
ne eq̃uelociter induceẽ gradus ſũmus in.a.ſicut in.b.quia
ſunt ſilia q̃litatiue ⁊ q̃ntitatiue eodẽ gradu alterata.ponaẽ
ġ q̃.c.ſit ſilr̃ vtriq̃.ſ.tã.a.ꝗ̃.b.alteratũ latitudine vnifor
miter difformi alteratiõis a q̃nq̃ vſq̃ ad 4ª:cuius extremũ
inteſius ſit v̇ſus extremũ remiſſius.c.⁊ ponaẽ q̃ ad oẽs pun
ctũ.b.inteñdaẽ alteratio vniformiter:ita q̃ corrñdeat al
terationi ad pũctum corrñdentẽ.c.in eodẽ tp̱e in quo gra
dus ſũmus ad illũ pũctũ.c.deueniet.⁊ ſequiẽ q̃ ad oẽm
punctũ.a.inteñdeẽ alteratio vltra duplũ gradũ ad iſtũ ad quẽ
inteñdeẽ alteratio ad pũctũ corrñdẽtẽ.b.q̃a ad extremũ
remiſſius.b.inteñdeẽ alteratio ad gradũ vt ſex:eo q̃ vniformi
ter inteñdeẽ ab iſto gradu vt 4ª: et correſpõdebit gradui
vt q̃nq̃: quia oĩs latitudo vniformiter acq̃ſita ſuo gradui
medio corrñdet vt acq̃riẽ:⁊ ad extremũ remiſſius.a.inteñ
deẽ ad gradũ vt.16.eo q̃ vniformiter inteñdiẽ.a.gradu vt 4ª:
ita q̃ tota iſta alteratio ad id extremũ gradui vt.10.corrñde
bit qui recte erit gradus medius iſtius latitudinis:⁊ gradus vt
16.eſt plus ꝗ̃ duplus ad gradũ vt ſex:⁊ ad oẽm pũctũ intrin
ſecũ.a.corrñdebit alteratio gradui inteſiori ꝗ̃ ad extremũ
remiſſius:vt poniẽ in caſu:⁊ ad oẽm eius pũctum inteñdiẽ
alteratio vniformiter a gradu iſto vt 4ª:ġ ad oẽm pũctũ in
trinſecũ.a.inteñdiẽ alteratio ad gradũ inteſiorẽ ꝗ̃ ad extremũ
remiſſius eiuſdẽ:⁊ ad oẽm pũctũ intrinſecũ.b.inteñdiẽ al
teratio ad gradũ remiſſiorẽ ꝗ̃ ad extremũ eius remiſſius.ġ ſeq̃
tur q̃ ad oẽm pũctũ.a.inteñdiẽ alteratio ad gradũ plus ꝗ̃ du
plũ ⁊c̃.⁊ etiã plus ꝗ̃ in duplo velocius ⁊c̃.q̃a ad oẽm pun
ctũ.a.plus ꝗ̃ in duplo maior latitudo acq̃riẽ ꝗ̃ ad pun
ctũ corrñdẽtẽ in.b.⁊ in tp̱e minori vt pȝ:q̃a ad oẽm pun
ctũ.a.citius deueniet gradus ſũmus ꝗ̃ ad pũctũ corrñ

dētez in.b.qa alteratio est velocior ꝛc̄.qa ita velociter inducet in.b.sicut in.c.vt pz:qa oia pūcta.b.c.equalr distātia a sūmo ꝛ oībus illis punctis eisdē gradib⁹ correspōdebūt alterationes.sequit̄ ergo cōclusio cōcedenda. Et ad argm̄ in oppositum negatur ꝯn̄tia. ❡ Cap.2m.

Nunc qualiter gradus sūmus inducet ꝑ subm̄ vnifor' diffor' mediāte latīe alteraōis diffor' diffor' semꝑ ꝯsilr̄ extēsa in parte remissa sicut in p̄n° in toto oībus alijs motib⁹ deductū est dōm. ❡ Pro quo est notādū ꝙ qualrcūqꝫ difformiter extēdat̄ aliq̄ latitudo alterationis ꝯtinua in subo aliq̄ si foret punct⁹ aliqs certe velociter incipiēs moueri in extremo quiescēte istī⁹ alterationis certe velociter vel īfinite velociter vel īfinite tarde incipet acqrere de gradib⁹ istius latīs.ꝛ hꝫ est cuilibet manifestū:eo ꝙ sic mouēdo incipet acqrere de hꝫ gradib⁹.❡ Et hꝫ habito ponēde sunt regule gn̄ales. ❡ Prima est hec.Si sit aliqd̄ vnifor' difforme terminatū ad sūmuz alteratū latīe difformiter difformi in extremo remissiori v̄sus extre™ remissius subtr̄:ita tn̄ ꝙ aliqd̄ incipiens moueri in extremo istius remissiori certo g° īfinite velociter vel certe velociter incipet acqrere de gradib⁹ istius latīs manēte alteratione ista ꝯtiā ꝯsilr̄ extēsa per ptē fm̄ se totā remissam in īfinitū remittet̄ inductio gradus sūmi:sic itelligēdo ꝙ ad oēm pūctum v̄sus extre™ remissius sit tardior alteratio q̄ʒ ad pūctuꝫ magis distātē ab eodē puncto.Sit enim.a.tale vnifor' difforme terminatū ad sūmum alteratū mediāte hꝫ latīe difformiter difformi:vt ponit̄ in ꝯne. Et sit.b.oīno ꝯsilr̄ alteratum latīe vnifor' difformi terminata in extremo remissiori ad eundē gm̄ ad quē terminat̄ extre™ remissius alterationis extēse per.a.ita ꝙ ad oēm pūctuꝫ.b. sit remissior alteratio q̄ʒ ad pūctuꝫ corrn̄dētē.a.ꝛ maneat hꝫ latitudo extēsa ꝯtinue vnifor' per ptē remissam.b.casus pz. Naꝫ ex q̄ po° aliqua certe velociter incipiēs moueri in extremo remissiori.a.certe velociter vel īfinite velociter acqret de iª latīe alterationis:cuꝫ ꝯtingat accipe aliquaꝫ latīeꝫ terminatā in extremo remissiori ad eundē gm̄ vnifor' difformē:ita ꝙ po° sic velociter mouēdo aliqualr̄ velociter acqrat de ista latīe alterationis:ꝛ minor posset esse extēsa per.b.ita ꝙ in duplo tardius acqreret hꝫ mouēs de ista latīe mediāte eodē gº mot⁹:ꝛ sic in īfinituꝫ:vt ꝯstat.ḡ ꝯtingit accipe latitudinē vnifor' difformeꝫ alterationis extēsaꝫ per.b.ita ꝙ illō mouēs tardius ꝯtinue mediāte eodē gº mot⁹ acqrat de ista latitudine alteratiōis in b.q̄ʒ faceret in.a.mediāte eodeꝫ gº mot⁹.ꝛ hꝫ nō eēt nisi in omni pte.b.foret minor latīe alterationis q̄ʒ in parte corrn̄dēte.a.vt notuꝫ est.ḡ stat per.b.eē hꝫ alterationes vniformiter difformes:ita ꝙ ad oēm pūctuꝫ istius sit tardior alteratio q̄ʒ ad pūctum corrn̄dētē.a.pz ḡ casus.Ex quo sic arguit̄.ad oēm pūctuꝫ.a.corrn̄debit alteratio ꝯtiᵉ gradui intēsiori q̄ʒ ad pūctuꝫ corrn̄dētē.b.ꝛ puncta equalr̄ distātia a sūmo:ḡ ad oēm pūctuꝫ.a.citius deueniet gradus sūmus q̄ʒ ad pūctuꝫ corrn̄dētē.b. Añs pz:ꝛ ꝯn̄tia sic arguit̄.nā si nō ad oēm pūctuꝫ.a.ꝛc̄.Sit iª.c.gr̄a argm̄.ꝯtra.veloci⁹ incipit gradus sūmus induci in.a.q̄ʒ in.b.qa alteratio ad oēm pūctuꝫ.a.est velocior ꝛc̄.Sit ḡ illō instās.d.in quo gradus sūmus deueniet ad.c.pūctuꝫ:tūc sic argr̄. Cōtinue vsqꝫ ad d.instās erit pars sūma.a.maior pte sūma.b.qa per datuꝫ ad oēm pūctuꝫ citra.c.citius deueniet gº sūmus q̄ʒ ad pūctuꝫ corrn̄dētē.b.ꝛ per ꝯn̄s.c.pūctus vsqꝫ ad.d.instās erit ꝓpingor extremo intēsiori ptis remisse.a.q̄ʒ est pūct⁹ corrn̄dēs.b.extremo intēsiori ptis sue remisse.cuꝫ ḡ ad oēm pūctuꝫ.a.velocior erit alteratio q̄ʒ tūc erit ad pūctuꝫ corrn̄dētē ptis remisse.b.sequit̄ ꝙ vsqꝫ ad.d.instās velocior ꝯtiᵉ erit alteratio ad.c.pūctuꝫ q̄ʒ ad punctū corrn̄dētē.b.ꝛ illa pūcta in p̄n° equalr̄ distātia a sūmo:ḡ citius deueniet gº sūmus ad.c.q̄ʒ ad pūctū corrn̄dētē in.b.ꝛ sic de oī alio pūcto.a.est argum™:ḡ ad oēꝫ punctū latīeꝫ.a.citi⁹ deueniet gº sūmus q̄ʒ ad pūctuꝫ corrn̄dētē.b.ꝛ ꝑ ꝯn̄s tota ps remissa.a.ꝯtiᵉ erit minor q̄ʒ tota pars remissa.b.ꝛ eq̄cito fiet tota ps remissa.a.sūma sicut tota pars remissa.b.eo ꝙ ad extrema remissiora eaꝫ partiuꝫ sp̄ erant alteraōes eq̄les:vt ponit̄ in casu.ḡ ab oī instāti istī⁹ tpis vsqꝫ in finē gm̄ remissiorī corrn̄debit inductio gº sūmi in.a.q̄ʒ in.b.qa in oī tali pte totī⁹ tpis terminata ad fineꝫ fiet minor pars.a.sūma q̄ʒ.b.ḡ cū īfim̄ remisso ḡdui corrn̄debit inductio gº sūmi in.b.q̄ʒ in aliq̄ pte istī⁹ tpis terminata ad finē iuxta ꝯnē.17.Et seq̄t ꝙ īfim̄ remisso gm̄ corrn̄debit inductio gº sūmi in.a.in aliq̄ tali pte.ḡ seq̄t̄ ꝯclo.Et sic est vlr̄ veꝝ ꝙ vbicūqꝫ aliqd̄ alterat̄ mediāte hꝫ latīe ꝯtiᵉ diffor' difformiter:ita ꝙ sit possibile cape latīeꝫ vnifor' difformē terīatā in extreᵒ remissiorī ad eūdē gm̄ ad quē terminat̄ ista latīo diffor' diffor™ in extremo suo remissiori:ita tn̄ ꝙ ad oēm pūctuꝫ istī⁹ vnifor' diffor™ sit gº alteraōis remissior q̄ʒ ad pūctuꝫ corrn̄dētē alterī⁹ in īfim̄ remittet̄ inductio gº sūmi in isto qd̄ alterat̄ ista latīe diffor' difformi.Qr aūt ꝯtingit in tali casu vbi alteraᵒ est sic disposita:ꝙ oē mouens in isto certo gº vndiqꝫ certe velociter vel īfim̄ veloᶜ acqret de latīe:vt ꝓdcm̄ est. Ubi vo hꝫ alteratio est sic diffor™ ꝙ mobile certo gº in extreᵒ remissiori incipiēs motū īfim̄ tarde acqreret de ista latīe nulla certa regª pōt poni:eo ꝙ īfinitis modis hꝫ variationeꝫ alteraōis ꝯtingit cētūc.n.nō pōt accipi aliq̄ latīo alteraōis vnifor' difformis ad cui⁹ quēlibet pūctum eēt gradus remissior ꝛc̄.si in extremo remissiori hꝫ latitudines ad eūdē gm̄ eēnt terminate:in omni eniꝫ vnifor' difformi quātumcūqꝫ modica eēt latitudo mobile in extremo eius certe velociter incipiēs mouere certe veloᶜ incipet acqrere de ista latitudine vt ꝯstat.seq̄t̄ ḡ nō ad oēm pūctuꝫ istī⁹ vnifor' difformis alteratiōis eē gm̄ remissiorē q̄ʒ ad pūctuꝫ correspōdētē istī⁹ difformiter difformis.Qr aūt iª latitudo possit eē ita difformia:ita ꝙ mobile certo ḡdu in extremo incipiēs moueri infinite tarde incipet acqrere de ista latitudine:sic pz.Diuidat̄ aliqd̄ corpus in ptes ꝓportionales ꝓportione dupla:ꝛ diuidat̄ vna latitudo alteratiōis in ptes ꝓportionales ꝓporᵉ q̄drupla:ita ꝙ in q̄druplo maior latitudo extēsiue sit in p̄ª pte ꝓportionali q̄ʒ in 2ª:ꝛ in q̄druplo maior in 2ª q̄ʒ in 3ª:ꝛ sic in īfinituꝫ:ita ꝙ ptes minores terminent̄ ad extremuꝫ remissius istī⁹ latitudinis alterationis:quo posito po° certe velociter incipiēs moueri in p̄ª pte ꝓportionali certe velociter incipet acqrere de ista latitudine:ꝛ in duplo tardi⁹ in 2ª pte ꝓportionali acqreret de ista latitudine eodē gradu mot⁹:qa 2ª pars ꝓportionalis est in duplo minor q̄ʒ p̄ª habēs in q̄druplo minorē latitudinē q̄ʒ habet p̄ª:vt ponit̄ in casu.ꝛ in duplo tardi⁹ acqret de latitudine in 3ª pte ꝓportionali q̄ʒ in 2ª ꝓpter eādē causam acqreret:sꝫ nūc est in duplo maior q̄ʒ tūc.ḡ ꝛc̄.ꝛ sic in īfinituꝫ:ḡ īfinite tarde mediāte isto gº mot⁹ incipet acqrere de ista latitudine in extremo remissiori totī⁹:qd̄ fuit ꝓbādūꝫ. ❡ Scḋa regula si sit aliqd̄ vnifor' difforme terminatū ad sūmuꝫ ꝛ alteratū latitudine difformiter difformi ꝯtinue extremo itēsiori alterationis v̄sus extremū remissius subtr̄:ita tn̄ ꝙ mobile incipiēs mouere in extremo remissiori illī⁹ subti certo gº finite velociter solū vel infinite velociter incipet ꝺpdē de gradib⁹ illī⁹ latīs manēte illa alteratiōe ꝯtiᵉ ꝯsilr̄ extēsa per ptē totī⁹ remissam sic nunc per totū extēdit̄ infim̄ itēdet̄ inductio gradus sūmi in eodē subto.Sit eīꝫ.a.tale tūc ꝯtingit accipe latīeꝫ alterationis vnifor' difformē terminatā in extremo itēsiori ad eūdeꝫ gm̄ ad quē terminat̄ illa latitudo diffor' difformis:ita tn̄ ꝙ si extēderet̄ per.b.cōsilr̄.a.oīno velocior erit alteratio ad

Pria regu⁹ cap.4 est.23. in ordine.

Scḋa regula et est 24. in ordine.

tio ad oẽm punctũ.b.q̃ ad punctũ corriſpondentẽ in.a.ex quo aliq̃ latitudine vniform̃ difformi ad iſtũ gradum terminata aliq̃lr velociter mediãte iſto gradu mot⁹ inciperet decreſcere: ꝛ in du⁹ tardi⁹ in aliq̃ alia per idem ſubm extẽſa: ꝛ ſic in infinitũ: ꝛ vbicũqꝫ mediãte eq̃li motu tardius decreſceret iſta latitu do ad oĩa puncta intrinſeca eſſet velocior alteratio. ꝑꝫ ergo caſus: quo poſito ꝓbatur: ꝙ ad oẽm punctũ.b. citius deueniet gradus ſumm⁹ q̃ ad punctũ corriſpondentẽ.a. ſicut econtrario mõ in caſu ꝓximo arguebat̃: ꝛ per ꝯñs pars remiſſa.a.ꝯtĩ⁹ erit maior pte remiſſa.b. ꝛ econtrario ſicut iſta duo ſunt: ergo ab oĩ inſtãti vſqꝫ ad finẽ tpis gradui inteñſiori corriſpondebit inductio gradus ſũmi in.a.q̃ in.b. ergo cũ infinitũ gradui corriſpondebit inductio gradus ſũmi in.b. in aliq̃ pte tpis ad finẽ terminata: ſeq̃t̃ ꝙ infinite intẽdet̃ inductio gradus ſũmi in.a. qḋ fuit ꝓbãdũ. Et ſic vĩr vbi eſt latitudo ſic difformis extremo inteñſiori verſus extremũ remiſſius ſubiecti: ita tñ ꝙ ſit dare latitudinẽ vniform̃ difformẽ terminatã in extremo inteñſiori ad eundeꝫ gradum ad quẽ terminat̃ iſta latitudo difformiter difformis in extremo inteñſiori extẽſa vniform̃ per ſubm: ita ꝙ ad oẽm punctũ iſti⁹ ſubti ſit velocior alteratio q̃ ad punctuꝫ corriſpondentẽ iſti⁹ difform̃ difformis in infinitũ intẽderet̃ inductio gradus ſũmi in eodeꝫ ſubto. qḋ ꝯtingit qñ eſt alteratio difform̃ difformis vt ponitur in ꝯne iſta. In alio aũt caſu foret impoſſe vel difficile veritatẽ inuenire vel regulaꝫ gnãleꝫ ponere ꝙ. ſ. mediãte aliquo gradu certo mot⁹ infinite tarda inciperet eſſe deꝑditio illius latitudinis alterãdis. i. gradui eiuſdem latitudinis: ita ꝙ mobili gradus remiſſior ꝛ remiſſior iſti⁹ latitudinis corriſponderet qḋ eſt poſſe in caſu ꝑ

Regula tertia ꝛ c. 25. in ordine.

ꝓbationẽ in ꝓximo notabili factaꝫ. ¶ Per ſubiectũ vniform̃ difforme terminatũ ad ſummũ mediãte latitudine alterationis infinita extremo inteñſiori alterationis verſus extremum inteñſius ſubiecti ꝯtinue extẽſe ſine aliqua mutatiõe ex pte ſubiecti gradus ſumm⁹ vniform̃ inducet̃. ¶ Pro quo primo eſt notãdũ ꝙ latitudo infinita alterationis illo modo põt acq̄ri ꝙ q̃ntũ ad acq̄ſitionẽ quãtitatis gradui infinito corriſpondeat. Sit. n. aliqḋ alteratũ per aliqḋ tpˢ aliq̃lr velociter ꝛ per tpˢ ſubquadruplũ in duplo veloci⁹: ꝛ per tpˢ ſubquadruplũ ad illud ſcḋm tpˢ in du⁹ veloci⁹ q̃ in iſto 2° tpe: ꝛ ſic in infinitũ: tũc alteratio et⁹ in infinitũ intẽdit̃ vt notũ eſt: ꝛ q̄litas ſoluꝫ finite acq̄ret̃: qꝛ in 2° tpe dato in duplo minor latitudo acq̄reret̃ q̃ in primo. Si. n. 2m tpˢ eſſet ſubduplum ꝑciſe ad primũ tanta latitudo acq̄reret̃ in iſto tpe ſicut in primo: qꝛ alteratio tũc erit in duplo velocior q̃ in primo: ſꝫ nũc in 2° in duplo minor latitudo acq̄ret̃ q̃ tũc: qꝛ tpˢ nũc eſt in du⁹ min⁹ q̃ tũc eſſet: ergo in primo tpe in duplo maior latitudo acq̄reret̃ q̃ in 2°: ꝛ in 2° in duplo maior q̃ in 3° per ideꝫ ꝛ ſic in infinitũ: ergo in toto tpe in du⁹ maior latitudo acq̄ret̃ q̃ in oĩbus tpib⁹ poſt primum. ꝯña tenet: ſicut de diuiſione in partes ꝓportionales ꝓportiõe dupla qḋ totũ eſt dupluꝫ ad oẽs ptes reſiduas a prima pte ꝓportionali: ſeq̃t̃ ergo ꝙ tota latitudo acq̄ſita eſt ſoluꝫ finita: ꝛ per ꝯñs iſta latitudo gradui ſoluꝫ finito corriſpondebit: imo põt argui ꝙ oĩ gradui finito poterit corriſpondere vt ponat̃ ꝙ in 2° tpe ſit alteratio in ſexquialtero velocior q̃ in primo: ꝛ in 3° in ſexqꝫ⁹ velocior q̃ in 2°: ꝛ ſic in infinitũ: ꝛ ſeq̃t̃ ꝙ tũc gradui remiſſiori corriſpondebit q̃ prius: ꝛ ſic põt poni de oĩ ꝓportiõe qua in tanto veloci⁹ alteret̃ in 2° tpe q̃ in primo: ꝛ ſic in infinitũ: in minorãdo ꝛ in maiorãdo ꝓportiones illoꝝ tẽpoꝝ in infinitũ vt ꝯſtat: ꝛ ſic cuilibet gradui intrinſeco poterit corriſpondere: qꝛ nõ eſt aliq̄s gradus quãtũcũqꝫ remiſſus quin per quãtũcũqꝫ magnũ tpˢ volueris põt iſta alteratio intẽdi anteq̃ ad iſtũ gradum ꝑueniet: ꝛ ſic per quãtũcũqꝫ tpˢ volueris põt eſſe dicta alteratio in acq̄rẽdo totã latitudinẽ reſiduã: ꝛ ſic ſequit̃ ꝙ omni gradui intrinſeco poterit

2° vt acq̄rit̃ corriſpondere. ¶ Nota ſcḋo ꝙ iſto mõ poteſt latitudo alterationis infinita acquiri ꝙ gradui in duplo inteñſiori quo ad acq̄ſitionẽ qualitatis corriſpondeat q̃ eſt gradus a quo incipit intẽdi vt ſi ſit alteratio nũc vt 3° ꝛ diuidat̃ tpˢ aliqḋ in ptes ꝓportionales ꝓportiõe quadrupla: in quaꝝ primo intendat̃ alteratio a trib⁹ vſqꝫ ad q̄nqꝫ vniform̃: ita ꝙ corriſpondeat gradui vt quatuor: ꝛ in 2° illaꝝ intẽdat̃ vniform̃ a quinqꝫ vſqꝫ ad. 21. ita ꝙ tũc corriſpondeat gradui in duplo inteñſiori q̃ in primo tpe vt cõſtat eſſe poſſe: ꝛ ſic in infinitũ: ita ꝙ ſemꝑ in pte poſteriori corriſpondeat gradui in duplo inteñſiori q̃ in parte imediate ꝑcedẽte vt cõſtat eſſe poſſe: eo ꝙ in pte poſteriori põt vniform̃ acq̄rere latitudinẽ: cuius gradus medi⁹ erit duplus ad graduꝫ mediũ latitudinis in pte imediate ꝑcedente acquirẽde: tunc ſic arguit̃. primũ illoꝝ tẽpoꝝ eſt quadruplum ad 2m: ꝛ 2m eſt quadrupluꝫ ad 3m: ꝛ ſic in infinitũ: ergo aggregatũ ex oĩbus illis tẽporib⁹ erit quadrupluꝫ ad oĩa preter primũ. Si. n. aliqua in eadeꝫ ꝓportiõe adinuiceꝫ cõparent̃ qualis eſt ꝓportio vnius ad ſui corriſpondens, talis eſt ꝓportio aggregati ex oĩb⁹ cõparatis ad oĩa ad que põt fieri ſiue ſit cõparatio vt tangit̃ 30° ꝯne de motu locali: ꝛ ſi ſic ſequit̃ ꝙ ſi mediãte gradu vt 3° poſſet acq̄ri quatuor in toto tpe qḋ ſuppono eſſe verum: ſequit̃ ꝙ mediãte iſto gradu in primo iſtoꝝ tempoꝝ põt acquiri 3°: ꝛ mediãte iſta inteñſione in primo tpe acq̄ret̃ in ſexqꝫ⁹ plus ꝑciſe q̃ mediãte gradu vt 3°: qꝛ in iſto tpe corriſpondebit gradui vt quatuor: ergo in primo illoꝝ tẽpoꝝ acq̄ret̃ quatuor mediãte iſta alteratione ſic intẽſa: ꝛ in primo iſtoꝝ tẽpoꝝ tãtũ acq̄ret ſicut in oĩbus tẽporib⁹ reſiduis: ergo in toto tpe acq̄ret octo per alterationẽ iſtã intẽſaꝫ in infinitũ: ꝛ mediãte gradu a quo incipit intẽdi põt quatuor acq̄ri in toto tpe per poſitũ: ergo in du⁹ inteñſiori gradui corriſpondebit iſta latitudo ſic acq̄ſita q̃ in principio corriſpondet. ꝯña ꝑꝫ: ꝛ añs arguit̃. ſ. ꝙ in primo tẽpore tantũ acq̄ret ſicut in oĩbus ptib⁹ reſiduis. nam in primo tpe in duplo maior latitudo acq̄ret̃ q̃ in ſcḋo: qꝛ alteratio et⁹ in iſto tpe corriſpondebit gradui in duplo remiſſior q̃ in ſcḋo per caſuꝫ. ꝛ primũ tpˢ eſt quadrupluꝫ ad 2m: ergo in iſto in du⁹ plus acq̄ret q̃ in 2°. Si. n. primũ tpˢ eſſet ꝑciſe duplũ ad 2m tantũ acq̄ret̃ in primo tpe ſicut in 2° vt ꝯſtat: ſed nũc in du⁹ plus acq̄ret in primo tpe q̃ tũc: ergo nũc in duplo maior latitudo q̄litatis acq̄ret̃ in primo tpe q̃ in 2°: ꝛ in 2° maior in duplo q̃ in 3°: ꝛ ſic in infinitũ per idem argumentum: ergo acquiſitũ in primo tpe erit equale acq̄ſito in oĩbus partib⁹ reſiduis ſicut eſt de cõtinuo diuiſo in ptes ꝓportionales ꝓportiõe dupla. Qꝛ prima pars ꝓportionalis oĩb⁹ alijs ptib⁹ eſt equalis: ſequit̃ ergo illud ꝓbãdum. Et nũc ad ꝯcluſionẽ arguit̃. Sit eniꝫ.a. vniform̃ difforme terminatũ ad ſummũ per qḋ extẽdat̃ gradus alterationis vniformis quo vniform̃ per totũ inducet̃ gradus ſummus in duab⁹ horis: ꝛ ponat̃ ꝙ in extremo remiſſiori intẽdat̃ alteratio in infinitũ in hora ſic ꝙ q̃ntũ ad acq̄ſitionẽ latitudinis corriſpondeat gradui in duplo inteñſiori q̃ nũc: ꝛ ſic de oĩbus alijs punctis ꝙ ꝓportionaliter ſicut min⁹ diſtat a ſũmo gradu eis corriſpondendo ſic in minori tpe intẽdat̃ alteratio ad illa puncta in infinitũ: ꝛ reſpectu cuiuſlibꝫ puncti corriſpondeat alteratio gradui in duplo inteñſiori q̃ nũc. Et ſeq̃t̃ ad oẽm punctum gradum ſummũ in du⁹ veloci⁹ induci q̃ ſi nõ intẽderet̃ inteñſio: qꝛ inteñſio ad oẽm punctũ gradui in duplo inteñſiori corriſpondebit q̃ nũc. Cuꝫ ergo deducta inteñſione alterationis in duabus horis vniform̃ inducet̃ gradus ſumm⁹ ꝑ totũ.a. ergo nũc in vna hora vniform̃ per totũ inducet̃ iſta forma: ꝛ hoc ſatis ꝓbat ꝯneꝫ. ¶ Ideo ꝯ iſtã arguit̃ ſic. Quiſcũqꝫ gradus inteñſionis ſignet̃: gradus inteñſior iſto, alicui pũcto intrinſeco incipit corriſpondere: ergo cũ mediante aliquo gradu aliqualr velocẽ inciperet induci ꝛ in duplo veloci⁹ mediãte alio: ꝛ ſic in infinitũ: ſeq̃t̃ ꝙ mediãte iſta latitudine in infinitũ velocẽ incipit gradus ſumm⁹ induci: ergo nõ ꝯtinue vniform̃ inducet̃. vel ſi vniform̃: tunc ſeq̃t̃ iſta ꝯ ꝙ gradus ſumm⁹ ꝯtinue in infinitũ velocẽ inducet̃ per.a. ¶ Pro iſto dicit̃ ꝙ nulli puncto intrinſeco incipit gradus in duplo inteñſior

Tertiã ꝯcluſionem

corrñdere q̃ eſt gradus extenſus per totū.a. q2 ad omnez
punctū intrinſecū.a. icipit eſſe ſoluz finita intēſio intēſio/
nis:ꝛ per ꝯñs ad nullū punctū intrinſecū ſubito intēdetur
2° intēſio ad du^m^. ℂ Scđo ſic. Si ad extremū remiſſius cō/
tinue foret equevelox intēſio ſicut ad aliquē pūctū intrin/
ſecū:tūc vnifor^r^ induceꝛ g^s^ ſumm^9^ per totū:vel ſi per totū
foret intēſio vniformis ꝛ iductio ēt vniformis: ḡ ſi diffor/
mis foret intēſio erit ēt difformis iductio. ℂ Negaꝛ ꝯña
q2 ad punctū ꝛc. ꝯtinue erit velocior intēſio ꝛ velocior:ſed
ſi ad oēm pūctū ꝯtinue maneret alteratio vniformis quo
3° ad tp̄s:tunc ꝯña foret bona. ℂ Tertio ſic. Sit.b.ꝯſile.a.ꝙ
oīa per qđ extēdaꝛ g^s^ duplus ad g^m^ extēſuz per.a.cui.ſ.al/
teratio.a. put acgriꝛ corrñdebit:ꝛ ſequiꝛ ꝙ per.b. vnifor^r^
induceꝛ g^s^ ſumm^9^ in hora:ꝛ per ꝯñs nō vnifor^r^ in.a.ꝯña
tenet. Naz capiaꝛ aliqđ inſtās intrinſecū hore: tūc per eq̄lez
partē erit alteratio in.a.ꝛ in.b.per poſituz ꝛ infi^m^ velocior
alteratio tūc erit ad aliquē punctū in.a.q̃ ad punctuz ſibi
corrñdentē in.b.eo ꝙ per ptē alterandaz in.a. tunc exten/
deꝛ alteratio infinita:ꝛ per ptez alterandam in.b.ſoluz g^s^
vniformis: ḡ nō per illas ptes in.a. ꝛ in.b. equecito erit g^s^
ſumm^9^ iduct^9^. ℂ Pro iſto dī ꝙ ad oēm punctū nō ſūmū
in.b.ꝯtinue erit aliqua q̄litas intēſior q̃ ad punctū corrñ/
dentem in.a.vt arguiꝛ poſt: ꝛ ideo lz tardior erit intenſio:
4° equecito tñ per vtrūqz induceꝛ g^s^ ſumm^9^. ℂ Itē in eodez
caſu arguiꝛ hec ꝯcl'o ꝙ.a.ꝯtinue veloci^9^ intēdeꝛ q̃.b.ꝛ nō
veloci^9^. Et etiā ꝙ.a.ꝯtinue velocius intēdeꝛ q̃.b.ꝛ nūc eſt
eque intēſuz cū.b.ꝛ ꝯt^e^ erit remiſſius.b. ℂ Et hec ſic ar^r^.
Alteratio in.a.incipit corrñdere alteratiōi in.b.eo ꝙ eque/
velox icipit eſſe inductio g^s^ ſummi in.a.ꝛ in.b. ꝛ alteratio
in.a.ꝯtinue erit velocior ꝛ velocior: q2 quocūqz inſtāti da/
to illa intēſione in minori tp̄e q̃ in hora induceꝛ g^s^ ſumm^9^
per vnū vnifor^r^ difforme ſicut eſt.a.cū ꝯſili intēſione intē/
ſionis vt appet: q2 extremū remiſſius citi^9^ fieret ſummū:
eo ꝙ latitudo ſm extremū remiſſius cōtinue terminabiꝛ
ad g^m^ intēſiorē ꝛ intēſiorē:ḡ totalis velocitas alteratōis in
a.ꝯtinue erit velocior ꝛ velocior: ꝛ intēſio in.b. ꝯtinue erit
vniformis:ḡ intēſio.a.ꝯtinue erit velocior ꝛ velocior: ꝛ in/
tenſio in.b.ꝯtinue erit vniformis:ḡ intēſio.a.ꝯtinue erit ve
locior intēſione.b.ꝛ per eq̄lez ptē:ḡ ꝯtinue intēdeꝛ.a.velo
cius q̃.b. Et ꝙ nō ar^r^ ſic.a.eſt nūc eque intēſuz cū.b.ꝛ con
tinue erit remiſſius.b. ḡ nō ꝯtinue veloci^9^ intēdeꝛ.a.q̃.b.
Añs pz:q2 ad oēm pūctū nō hñtez g^m^ ſummū corrñdebit
ꝯtinue g^s^ remiſſior in.a.q̃ in.b.q2 ſi aliqñ ad aliquez pun/
ctuz in.a.nō ſummū erit gradus cal'itatis eque intēſus ſicꝫ
ad punctū corrñdentez in.b.vel tūc erit remiſſior intenſio
in.a.ad iſtuz punctū q̃ ad illuz in.b.vel eque intēſa vel ve
locior. Si eque intēſa vel velocior ꝛ ꝯtinue poſt erit intē/
ſio intēſionis ad illū punctū in.a. ꝛ ad iſtū punctū ſibi cor/
rñdentē in.b.ꝯtinue erit intēſio vniformis: ḡ citi^9^ induceꝛ
gradus ſumm^9^ ad illuz punctū in.a.q̃ ad illum punctū in
b.ergo nō vnifor^r^ ꝛ equeue^r^ iduceꝛ g^s^ ſumm^9^ in.a. ꝛ in.b.
Si remiſſior intēſio tūc erit ad illuz punctū in.a.q̃ in.b.ꝛ
ꝯtinue vſqz ad idez inſtās erit remiſſior intēſio in.a.q̃ tūc
erit:ꝛ in.b.ꝯtinue manebit intēſio vniformis:cum ḡ in p̄n^o^
ad illa puncta.a.ꝛ.b.ſint gradus eque intēſi: ſeqꝛ ꝙ in iſto
inſtāti dato ad iſtū pūctū in.a.erit gradus remiſſior q̃ ad
punctū corrñdentē in.b.qđ fuit pbāduz: ḡ pz p^a^ cōcluſio.
2^a^ ꝯ ℂ Scđa ꝯcl'o pz:q2 p̄us arguta eſt p^a^ pars: ꝛ in B vltimo
3^a^ ꝯ argumēto pbaꝛ 2ª pars:ḡ tota. ℂ Itē in caſu iſto ſeqꝛ ꝙ
intēſio.a.icipit eſſe equevelox cū intēſione in.b.ꝛ nō eque/
velox cū intēſione in.b.ſed remiſſior.p^a^ pz.nā intēſio in.a.
nō incipit corrñdere gradui remiſſiori q̃ eſt gradus extē/
ſus per.b.q2 mediāte nullo gradu remiſſiori icipiet ḡdus
ſumm^9^ equeue^r^ induci in.a.ſicut in.b.ſicut pz.nec intēſioris:
q2 mediāte oī intenſiori velocius inciperet q̃ n^c^ incipit.pz ḡ

p̄ma pars iſtius ꝯnis:ꝛ 2ª pars ar^r^:q2 nulli puncto intrin/
ſeco in.a.icipit gradus ita intenſus corrñdere ſicut puncto
corrñdenti in.b.vt argutū eſt in rñſione ad p^m^ arg^m^ cōtra
ꝯnem p̄ncipalez. ℂ Pro iſtis ꝯnib^9^ negaꝛ ꝙ.a.equevelo^r^
incipit intēdi ſicut.b.vt pz per tertiā ptem vltime ꝯnis:q2
ſoluz intēdiꝛ per maiorationē exceſſus cal'itatis ſupra fri/
giditatē:cū ḡ ꝯtinue erit poſt hoc friditas intenſior in.a.q̃
in.b.per ſargutā ꝛ caliditas equalis:ſequiꝛ exceſſuz cali/
ditatis in.a.ſupra fridiatē eē miorē exceſſu caliditatis.b.
ſupra ſuā fridītatē:ꝛ per ꝯñs intēſio minor: ꝛ ſi ſic quo ad
inductionē g^s^ ſūmi nō equevelox icipit eē intēſio in.a.ſicut
in.b. Et qñ ar^r^ intēſionē in.a.fore intēſiorē quo ad iductio/
nem g^s^ ſūmi q̃ n^c^ incipit/eē ꝯcediꝛ:q2 in vno ꝯſil'r diſpoſi
to cū pte alterāda in.b.ꝛ eq̄li veloci^9^ quocūqz inſtāti dato
inciperet g^s^ ſumm^9^ induci mediāte iſta intēſione q̃ nūc ici/
pit vel ēt in vno ꝯſil'r diſpoſito ſicut nūc eſt.a.q2 ifinite ve
lociter iciperet induci in quoiz talī:eo ꝙ quilz ḡdus tunc ali/
cui pūcto intrinſeco in pte alterāda.a.corrñdebit:cū ps alte/
randa in.a.cōtinue erit ita difformis:q2 mediāte quocūqz
g^u^ finito infinite tarde iciperet g^s^ ſumm^9^ iduci: ꝛ ſic nō ſeqꝛ
a.ꝯti^e^ intēdi veloci^9^ q̃.b.ſꝫ per certū tp̄s terminatū ad hoc
inſtās tardi^9^:ꝛ per certū tp̄s terminatū ad finē hore veloci^9^
vt ſatis pz intuēti:ꝛ ſic nō ſequiꝛ aliqua illaꝝ cōcluſionuz.
ℂ Per ſubm vnifor^r^ calidū mediāte latitudie alteratio/ Quarta regula q̃ eſt.26.in ordine.
nis ifinita gradus ſumm^9^ vnifor^r^ induceꝛ. Sit eniz.a.cali
duz vniforme per qđ extēdatur gradus vt prius mediāte
quo totuz fiat ſummū in duabus horis ꝛ intenſio extremi
intēdatur in infinitum in hora:ꝛ ſic difformiter intendatur
ꝙ gradui in duplo intēſiori correſpondeat quo ad acquiſi/
tionē latitudinis q̃ nūc:ꝛ gradus corrñdens pūcto medio
itēdaꝛ in ifi^m^ in medietate hore ꝛ corrñdeat ḡdui in qua/
druplo intēſiori q̃ nūc:ꝛ ſic ꝓportionabil'r ſicut pūcta mi/
nus ſunt diſtātia extre^o^:ita in miori tp̄e itēdaꝛ alteratio in
infi^m^ ꝛ ḡdui intēſiori corrñdeat:ꝛ ſeqꝛ ꝙ in hora induceꝛ
g^s^ ſumm^9^ vni^r^ per totū.a.q2 ꝓpor^r^ ſicut pūcta mīn^9^ diſtās
ab extre^o^ ſic intēſio ad illa puncta ḡdui intēſiori corrñde/
bit ꝛ oīa eq̄l'r diſtāt a ſummo: ḡ ꝛc. Uel capiaꝛ.b.ꝯſimile
ipſi.a.ꝛ ad oēm punctū.b. ſit intēſio vniformis.ſ. talis cui
corrñdebit intēſio ad punctū corrñdentē in.a.cū ḡ vnifor^r^
induceꝛ in.b.ḡ per.a.vnifor^r^:ꝯcl'o eſt cōcedenda. ℂ Item
quātūcūqz diffor^e^ ſit aliqđ corp^9^ per idez mediāte latitu/ Quinta regula ꝛ eſt 27.in ordine.
dine alterationis in infi^m^ poſſet gradus ſumm^9^ iduci vni/
formiter. Sit.a.vnū difforme ꝛ ad oēm punctū extendaꝛ
talis gradus ſic ꝙ ꝓportionabil'r ſicut puncta mīn^9^ diſtāt
ab vno extremo ſic eis citius ḡdus ſumm^9^ deueniet vt ſa/
tis eſt poſſe.ponaꝛ ergo ꝙ ad oēm punctū.b. ꝯſil'r diſpoſi/
tum cū.a.extēdaꝛ gradus ſubduplus ad graduz extenſuz
ad punctū corrñdentē in.a.ꝛ in eodez tp̄e in quo g^s^ ſūmus
deueniet ad aliquē punctū.a.intēdaꝛ alteratio ad corrñdē
tez in.b.in infi^m^ ꝛ corrñdeat gradui in du^o^ intēſiori q̃ nūc.
cū ergo per.a.vnifor^r^:ergo per.b. ℂ Oia illa que ſūt eq̄lia Sexta regula ſed 28.in ordine.
ꝛ ꝯſil'r calida ꝛ mediāte latitudine alterationis ifinita infi/
nite tarde ꝯtinue induceꝛ gradus ſumm^9^ per aliqđ illoꝝ.
Capianꝛ infinita eq̄lia ꝛ eque intēſa cū.a. ꝛ per qđlz illoꝝ
extēdaꝛ alteratio vniformis ꝛ ſit gradus alterationis extē/
ſus per.a.aliqual'r intēſus: ꝛ gradus extēſus per p^m^ iſtoꝝ
infinitoꝝ in duplo remiſſior: ꝛ per 2^m^ in q̄druplo remiſ/
ſior ꝛ ſic in infinitū:ꝛ quilibet illoꝝ graduū ꝓportiōabil'r
ſicut eſt remiſſior g^s^ extēſo per.a.ſic in tp̄e maiori intēdaꝛ
in infinitū q̃ erit tempus in quo intēdeꝛ gradus extenſus
per.a.in infinitū ꝛ gradui remiſſiori corrñdeat q̃ erit gra/
dus cui corrñdebit gradus extēſus per.a.qui in infi^m^ intē/
detur quo ad acquiſitionē latitudinis quilibet.ſ.ſubduplo
vt ſic acgriꝛ intelligēdo ſic:ꝙ ſi gradus extēſus per.a.intē/
daꝛ ad extremū remiſſi^9^.a.in hora in infi^m^ ꝙ in p̄mo illoꝝ

infinitoꝝ intēdať ad ei9 extremū remiſſius gradus exten/
ſus per illud ꝑmū infim in duab9 horis: ꝛ eodē mō dico ꝙ
ſi alteratio ad mediū punctū in.a.intendať in infim in me/
dietate hore ꝙ ad punctū corrñdentē in ꝑmo illoꝝ inten/
dať in infinitū in hora: ꝛ ſic de alijs punctis corrñdentib9
in illis ꝛ in quolꝫ illo infinitoꝝ: ꝛ ſequiť ꝙ per.a. induceť
vnifor in aliquo tpe poſito ꝙ nūc ſit vnifor difforme ter
minatū ad ſummū ꝛ per ꝑm infinitoꝝ in tpe duplo ꝑciſe: ꝛ
per 2m in tpe q̄druplo: ꝛ ſic in infim: ḡ infinite tarde induceť
Septima regula ſed 29ª in ordine. gradus ſumm9 in aliq̄ iſtoꝝ: ḡ ꝯclō eſt ꝯcedēda. ❡ Per
ſubm vnifor difforme terminatū ad ſummū mediāte al/
teratiōe ad nō gm termīata per ptē remiſſaꝫ ꝯtinue extēſa
extremo remiſſiori alterationis.ſ.nō gradus verſus extrem
3 regm intēſius ſubi gradus ſumm9 ꝯtinue vnir induceť. ❡ Cōtra
iſtā ꝯnēꝫ ar ſic. Tardi9 icipit gradus ſumm9 iduci q̄ᷓ me/
diāte aliquo g° finito induceretᷓ: ſꝫ mediāte aliquo gradu
aliqualr velor inciperet induci ꝛ mediante g° alio in du° tar/
dius ꝛ ſic in infim: ḡ infinite tarde icipit gradus ſumm9 in/
duci: ꝛ per ꝯñs nō ꝯtinue vnir induceť. ꝯña ꝛ mior patent
ꝛ maior ar ſic. Quocūqꝫ gradu dato g° remiſſior icipit eē
ad certū punctū: ex quo icipit alterari latitudine termiata
ad nō gm: ꝛ per ꝯñs per certā ptē icipit eē alteratio tardior
iſto g° dato quātūcūqꝫ remiſſius fuerit: ꝛ per ꝯñs tardi9 in/
cipit gradus ſumm9 induci q̄ᷓ ſi alteraretᷓ illo gradu dato
2° quiſcūqꝫ fuerit: ſeqᷓť ḡ ꝯnēꝫ eē falſaꝫ. ❡ Scđo ſi ad pun/
ctuꝫ mediū eēt ꝯtinue equeuelox alteratio ſicut ad extrem
remiſſius: tūc in duplo citius deueniret gradus ſumm9 ad
punctū mediū q̄ᷓ ad extremū remiſſius vt apparet: eo ꝙ in
duplo ꝓpinquior erit punct9 medi9 gradui ſummo q̄ᷓ ex/
tremo remiſſiori: ſed nūc tardior ꝯtinue erit alteratio ad
punctū mediū q̄ᷓ ad extremū remiſſius: eo ꝙ nō g° altera/
tionis ſemꝑ erit verſus extremū intēſius: ḡ nō in duplo ve
locius deueniet g° ſumm9 ad punctū mem q̄ᷓ extremū re/
3° miſſius: ꝛ per ꝯñs nō vnifor induceť g° ſummi9. ❡ Tertio
ſi ſic. Sit id ſubm.a. ꝛ ſit.b. ꝯſilč.a.alteratuꝫ in vno gradu
vniformi mediāte quo fiet ſūmū.ſ.ſubduplo ad gm a quo
incipit alteratio in.a.remitti ad nō gm vnifor in eodēꝫ tpe
in quo.a.fiet ſummū ſicut notū eſt eē poſſe: eo ꝙ mediante
aliquo g° in aliquo tpe fiet ſummuꝫ: ꝛ mete alio tpe duplo
fiet ꝑciſe ſummū: ꝛ ſic in infim: ꝛ mediāte aliquo tpe duplo
minori ꝛ ſic in infim. quo poſito arguiť ſic.b. ꝛ.a. ſunt oīno
ſilia qualitatiue ꝛ quātitatiue: ꝛ per aliquā partē.a.ꝯtinue
erit tardior alteratio q̄ᷓ per ptē corrñdentē.b. eo ꝙ.a. ꝯtie
alterabiť latitudine termiata ad nō gm: ꝛ.b.vno g° vnifor/
mi vt poſitū eſt: ḡ veloci9 induceť aliqñ g° ſumm9 in.b.q̄ᷓ
in.a. ꝛ in.b.induceť vnifor in tpe quo.a.fiet ſummū: ḡ non
Probat regula. vnifor induceť per.a. ſeqᷓť ergo ꝯnēꝫ eē falſaꝫ. ❡ Ad ptē
affirmatiuā arguiť. Ponēdo ꝙ.a.b.ſint duo vnifor diffor
mia termiata ad ſummū ꝛ altereť.a. vno gradu vniformi
in quo pōt fieri ſummuꝫ in hora ꝛ altereť.b. g° ſubdu9 ad
gm quo alteraťa. ꝛ ponať ꝙ ad oēm punctū.a. remittatur
alteratio vnifor ad nō gm in tpe iſto in quo gradus ſūm9
ad punctū corrñdentēꝫ.b.deueniet. quo poſito arguiť ſic.
Alteratio ad oēm punctū.a.eidē gradui corrñdet ſicut al/
teratio ad punctū corrñdentē.b.eo ꝙ alteratio ad omneꝫ
punctū.b.eſt in gradu medio latitudis per quā vnifor re/
mitteť alteratio ad oēm pūctū.a.vt notū eſt: ꝛ ois latitudo
vnifor deꝑdita ſuo gradui medio corrñdet: ꝛ ad oēm pū/
ctuꝫ in.a.per eq̄le tps durabit alteratio ſicut ad punctum
corrñdentē in.b.vt ponit caſus: ḡ ad oēm punctū.a.eq̄cito
deueniet gradus ſumm9 ſicut ad punctū corrñdentē in.b.
cuꝫ ḡ per.b.vnifor induceť g° ſumm9: q: vno g° vniformi
alterabiť: ſeqᷓť etiā ꝙ per.a.g° ſumm9 induceť vnifor. Et
ꝙ.a.ꝯtinue alterabiť latitudine termiata ad nō gm ꝓꝫ: q:
imediate poſt hoc ꝯtinue erit g° ſumm9 ad aliquē punctū

b. ꝛ eq̄cito g° ſummus deueniet ad aliquem punctū.b. erit
alteratio remiſſa ad nō gm ad punctū corrñdenteꝫ.a.ergo
ſequiť ꝙ ꝯtinue termiabiť alteratio.a.ad nō gm totū. Añs
ſatis manifeſtū ꝑꝫ: ſequiť ergo ꝯnēꝫ eē verā. ❡ Ideo dī Ad arta
ꝯcedendo ꝯnē: ꝛ ad ꝑm argm in oppom negať ꝙ quocūqꝫ Zria
gradu dato iaꝫ incipit remiſſior eē ad certū punctū itrin/
ſecū: q: ad nulluꝫ punctū intrinſecū.a. icipit eē alteratio
ita remiſſa ſicut eſt gradus extēſus per.b. q: ex quo ad oēꝫ
punctū erit vniformis remiſſio alterationis: ſeqᷓtur ꝙ ad
oēm punctū intrinſecū ſolum finite velor incipit alteratio
remitti: ꝛ ad oēm pūctū.a.eſt in ꝑn° alterationis g° duplus
ad gm extēſuꝫ per.b.ḡ nulli puncto itrinſeco.a. incipit cor/
rñdere g° alterationis ita remiſſus ſicut eſt per.b. q̄tūs iaꝫ
incipiat alteratio in ipſo ad nō gm termiari: imo iam icipit
tota latitudo citra extremū intēſius extēdi in infim in mo/
dica quātitate: q: poſt hoc in ifim modica q̄titate extēdeť.
ꝛ nulluꝫ erit inſtās poſt hoc qn inter hoc inſtās pñs ꝛ illō
in infim modica q̄titate extēdeť. qđ ꝓbatur: q: nulluꝫ erit
inſtās ꝛc. quin ꝛc. in aliq̄ q̄titate extēdeť ꝛ in du° minori:
ꝛ ſic in infim. qđ ꝓbať: q: nulluꝫ ꝛc. qn ꝛc. ad oēm punctuꝫ
eius in nulla ꝓporne erit remiſſior alteratio q̄ᷓ nūc eſt: nec
eſt incōueniēs de futuro: de pñti tñ eſt ipoſſe ꝙ.ſ.in aliquo
ſubo extēdať latitudo ad nō gm termiata: ꝛ tñ ꝙ nō quo/
cūqꝫ g° dato gradus remiſſior certo pūcto intrinſeco cor/
rñdeat. ❡ Ideo ar ſic. Quocūqꝫ inſtanti dato erit hec ꝓ
poſitio vera. per ptē remiſſam.a.extēdeť latitudo altera/
tionis ad nō gm termiata: ḡ in oī inſtāti tardius induceťur
g° ſumm9 q̄ᷓ ſi tūc aliquo g° finito intēderetᷓ: ꝛ ſi ſic pro oī
inſtāti infinite tarde induceť g° ſumm9: ꝛ per ꝯñs nō ꝯtinue
vnifor. ❡ Pro iſto dī ꝙ pro oī inſtanti erit pars.a. ſm ſe
totā remiſſa ita difformis ꝙ mediāte oī g° finito ifinite ve
lociter induceť g° ſumm9 pro tali inſtāti: q: mediāte illa la
titudine ad nō gm termiata certe velor ꝓtūc induceť gradus
ſumm9: ꝛ ſic nō ꝓcedit id argm. ❡ Ad 2m argm negať ꝯña:
q: lꝫ ad oīa pūcta verſus extremū intēſius ꝯtinue erit tar/
dior alteratio q̄ᷓ ad punctū remiſſiorē q̄ñ.ſ. ad illa erit al/
terationis remiſſio ad oēm tñ punctuꝫ remitteť alteratio:
ita ꝙ cuilibet pūcto iſtius tota alteratio cathegoce eidem
gradui corrñdebit: q: gradui quo alterabiť.b. ſi tñ ad oēꝫ
punctū maneret ꝯtinue alteratio vniformis oportet valeret
argm ſicut planius dī vbi tāgiť de motu locali. ❡ Ad 3m
argm dī admittēdo caſuꝫ ꝛ dī ꝙ lꝫ ꝯtinue pro oī inſtanti
erit tardior alteratio ad aliquē punctū.a.q̄ᷓ ad punctū cor/
rñdentē.b.ꝑus tñ erit velocior alteratio ad oēꝫ punctū.a.
q̄ᷓ ad punctū corrñdentem.b.rōne cui9 oīa puncta.a.tunc
erūt gradui ſummo ꝓpinquiora: vt ꝯſtat per caſuꝫ q̄ᷓ pun
cta corrñdentia.b. ꝛ ideo nō ſequiť ꝙ velocius aliqñ idu/
ceťur gradus ſumm9 in.b.q̄ᷓ in.a.nunq̄ᷓ eniꝫ poſt hoc erūt
iſta ꝯſimilr diſpoſita: ꝛ ſic nō ꝓcedit argm: q: nō eſt incō/
ueniēs vt ꝑdiciť ꝙ nūc icipiat ad extremū.a. remitti alte/
ratio ad nō gm: ita ꝙ imediate poſt alterabiť latitudie ter
minata ad nō gm: ꝛ tamē ad nullum punctū incipit eē gra
dus ſubduplus ad graduꝫ nūc per eū extēſuꝫ: nec gradus
in aliqua certa ꝓportione minor iſto gradu dato de pñti:
tamē eſt ipoſſibile vt dictū eſt. ❡ Si ſit aliqđ vniformi/ Octaua regula ꝛ 30ª in ordine.
ter difforme terminatū ad ſummū alteratū per totuꝫ vno
gradu vniformi: qui gradus manēs vniformis quo ad ſub/
iectū intēdať vnifor vel diffor ſeu remittať, eque ꝓpor/
tionabilr intēdiť iductio g° ſummi cum illa alteratiōe vel
remitteť, nulla aliunde facta variatiōe in iſto ſubo. Sit.n.
tale.a.alteratū vno gradu per totum qui gradus intēdať,
manēs vniformis quo ad ſubiectuꝫ nulla alia mutatione
facta in iſto ſubiecto. Et ar ꝙ ꝓpor ſicut alteratio erit ve
locior: ita erit iductio g° ſūmi intēſior: q: ſi nō detᷓ vnū in/
ſtans.ſ.c.in quo alteratio erit in.f. ꝓporne maior q̄ᷓ nūc eſt.

quecūqȝ ſit talis ꝓportio: ⁊ ſit.b.tota ps eiꝰ ꝑtūc remiſſa: nūc arr ſic. ꝓporr ſicut.b.eſt minꝰ toto.a.in pnᵒ:ita bȝ minorē latitudinem extēſiue:exquo totū eſt vniforr difforme ⁊ alterabitr ꝯtinue vno gᵘ vniformi:ḡ per tertiā regulaȝ totū.b. in.c.inſtāti hēbit eq̄leȝ latitudinem extēſiue ſicut in pnᵒ bȝ ideȝ b.ergo ꝓporr ſicut tūc erit minꝰ q̄ nūc eſt.a. ita tunc hēbit latitudinem extēſiue minorē ad ſummū terminatā q̄ nūc bȝ.a. ⁊ per ꝯñs ſi tūc alteraretr eodem gᵘ quo in pnᵒ totū.a.alterabatr:tunc equeuer inducitr gradus ſummꝰ in.b.ſicut nc in.a. ꝯña tenet per ꝯneȝ quītā.ſed nūc in.f. ꝓporne velociꝰ inducetr gradus ſummꝰ in.b.q̄ ſi alteraretr eodeȝ gradu quo in pnᵒ iuxta ꝯneȝ nonā:eo ꝙ ſua alteratio in.c.iſtāti erit in.f. ꝓporne velocior q̄ eſſet ſi alteraretr gradu quo in pnᵒ:ḡ in c.inſtāti in.f. ꝓporne velociꝰ inducetr gradus ſummꝰ in.b. q̄ nūc incipit in.a.⁊ equeuer inducetr in.a. ſicut in.b. qa.b. eſt ps.a.ḡ in.c.inſtanti in.f. ꝓporne velociꝰ inducetr gradus ſummꝰ in.a.q̄ nūc incipit:⁊ ſic pro oī inſtāti eſt arguēduȝ ꝙ ꝓporr ſicut ſua alteratio erit velocior q̄ in pnᵒ: ita tunc velociꝰ īducetr gradus ſummꝰ q̄ in pnᵒ: ſeqͥtr ergo ꝙ eque ꝓporr intendetr inductio gradus ſummi ſicut alteratio qꝺ fuit ꝓbāduȝ.¶ Exquo infertr ꝙ ſi alteratio hꝰ vniformis

Corm ſequens ex pma parte regule.

vniforr intēderetr:vniforr intēderetr īductio gᵘ ſummi: ⁊ ſi difformiter intēdatr alteratio:inductio gradus ſummi difformiter intendetr.Si.n.inductio correſpꝺeat alterationi in gradu cū eque ꝓportionabilr intēderetr inductio cuȝ illa alteratiōe:pȝ ꝙ ſemp erūt īductio ⁊ alteratio eq̄les: ⁊ per ꝯñs equer itēdentr. Si ḡ alteratio vniforr intēderetr: ſeqͥtr ꝙ inductio vniforr intēderetr:⁊ ſi alteratio difformiter:inductio difformiter.Si īductio ſit minor alteratiōe ⁊ eque ꝓportionabilr intēderetr inductio cū alteratione: ḡ in qua ꝓportiōe eſt minor/in ea ꝓporne tardius intēdetr.Si ergo alteratio vniformiter intenderetr ⁊ inductio: ⁊ ſi alteratio difformiter ⁊ inductio.Conſilr arguitr: ſi ponatr ꝙ īductio ſit maior q̄ alteratio:qꝛ tūc ſicut eſt maior:ita velociꝰ intēderetr ⁊c.Silr oīo arguitr:vbi alteratio manēs vniformis quo ad ſubiectū remitteretr:qꝛ.ſ.eque ꝓportionabilr minoratr inductio gradus cū illa alteratione ſubiecto aliūde nō moto:⁊ ex vniformi remiſſiōe alteratiōis quo ad tꝑs:ſeqͥtr vniformis remiſſio īductiōis gᵘ ſūmi:⁊ ex difformi difformis inductio vt ꝑus patuit. ¶ Caplm 3m.

Dictis quibuſdā regulis cōibꝰ de inductiōe gradus ſummi alteratione extenſa in principio per totū ſubiectuȝ: reſtat dicere qualr etiā ſi ſit ab extremo intēſiori verſus extremuȝ remiſſius ꝑticularis acq̄ſitio alterationis. Pro quo ſit hec regl'a.¶ Si ſit aliqꝺ vniforr difforme termiatū ad ſūmū

Pria regula hꝰ capli que ē 3ᵃ in ordine.

a citius extremo intēſiori incipit eſſe ꝑticularis generatio alterationis per ptē ante partē:⁊ hoc vniformi ꝓgreſſione vniꝰ gradus alterationis vniformis nō variati ad omneȝ punctū manēte quouſqȝ gradus ſummꝰ ad illuȝ deuenerit:ita ꝙ extēdatr in parte maiori quouſqȝ ad extremū remiſſius deuenerit gradus ſummꝰ per idem ſubm vniforr inducetr.Sit enīȝ.a.tale vniforr difforme in cuiꝰ extremo intenſiori incipiat eſſe hꝰ acq̄ſitio ꝑticularis vt ponitur in ꝯcl'one:⁊ arguitr ꝙ in.a.gradus ſummꝰ vniforr inducetur: ꝓportionabilr enim ſicut puncta ſunt ꝓpinq̄ora extremo intenſiori: ita ad iſta citius deueniet gradus ſummꝰ: ⁊ per ꝯñs vniforr īducetr.ꝯña ſatis pȝ:⁊ añs arguitr: qꝛ ſi nō ſint c.d.duo puncta iſtius.a.⁊ ponatr ꝙ.c. punctus in.f. ꝓporne plus diſtet ab extremo intēſiori q̄.d.punctꝰ: tūc arguitr ꝙ in.f. ꝓporne citius deueniet gᵘ ſummꝰ ad.d.pūctuȝ q̄ ad.c. qꝛ exquo alteratio vniforr ꝓgredietr in.a.⁊ punctꝰ.d.eſt in f.ꝓportiōe ꝓpinquior extremo intēſiori a quo incipit eſſe ꝓgreſſio alterationis q̄.c.punctꝰ: ſeqͥtr ꝙ in.f.ꝓporne citiꝰ deueniet alteratio ad.d.punctū q̄ ad.c. ergo tꝑs quod erit anteq̄ alteratio deueniat ad.c.punctū erit in.f. ꝓportione maius tpe ꝑcedente alteratione ad.d.punctū: ⁊ tēpus per qꝺ durabit alteratio ad.c. punctū erit in.f. ꝓportione maius tēpore durationis alterationis ad.d.punctuȝ:qꝛ.c.in.f. ꝓportione plus diſtat a ſummo q̄.d. ⁊ alteratio eſt eq̄lis ⁊ habito gradu ſummo ceſſabit alteratio:ḡ totū tꝑs cōpoſitū ex tpe ꝑcedente alteratione ad.c.punctū: ⁊ tpe per qꝺ ibi erit alteratio:erit in.f.ꝓportiōe maius tpe cōpoſito ex tēpore ꝑcedente alteratione ad.d. punctū ⁊ tpe per qꝺ ibi durabit alteratio.ꝯña pȝ per illam regulaȝ.Qualis ꝓportio aliquoꝝ duoꝝ diuiſoꝝ ⁊c.talis erit ꝓportio eoꝝdem cōiunctoꝝ. cū ḡ in finibꝰ illoꝝ tempoꝝ erit gradus ſūmꝰ ad.c.d.puncta:ḡ in.f.ꝓportiōe citiꝰ deueniet gradus ſummus ad.d.q̄ ad.c. ⁊ ita de oibus alijs punctis ipſius.a.eſt arguēdum.ſ.ꝙ ſicut puncta ſunt ꝓpinquiora extremo intenſiori:ita ad illa citius deueniet gradus ſummꝰ: ⁊ p ꝯñs vniformiter īducetr per.a.ergo ſeqͥtr ꝯcluſio.¶ Cōtra quā arguitr. Ponatr ꝙ.a.b.ſint duo vniforr difformia termiata ad ſummū oīo ſilia taȝ qualitatiue q̄ quātitatiue:⁊ ſit per b.gradus alterationis mediāte quo ipſuȝ poſſit fieri ſummuȝ in hora.Et ꝙ ab extremo intēſiori.a.ꝑtibilr acq̄ratur iſte gradus alterationis:ita ꝙ per.a.inducatr iſta alteratio vniforr in hora.Et cū alteratio deuenerit ad aliquē pūctuȝ maneat ibi quouſqȝ ad iſtum deuenerit gradus ſummus: tunc arguitr ꝙ in.a.nō inducetr gradus vniformiter: quia equeuelociter īcipit gradus ſummꝰ induci in.a. ſicut in.b. ⁊ in.b. vniforr inducetr: ⁊ aliqn̄ tardius inducetur gradus ſummꝰ in.a.q̄ in.b.ergo nō ꝯtinue vniforr inducetur in.a. ꝯña pȝ de ſe: ⁊ maior arguitr ſic:qꝛ.a.b.ſunt oīno ſimilia ⁊ tanta incipit eſſe alteratio ad extremū intēſius.a. ſicut ad extremū intēſius.b. ḡ equeuer incipit gᵘ ſummꝰ induci in a.ſicut in.b.ꝯña arguitr:qꝛ ſi forent infinita oīno ſilia.a.b. quoꝝ primū inciperet alterari per medietatē eodem gradu quo.b.per totū:⁊ 2m per quartā intenſiſſimā eodeȝ gradu ⁊ 3m per octauā eius intenſiſſimā:⁊ ſic in infim:tūc per qꝺlȝ illoꝝ inciperet gradus ſummꝰ equeuer induci ſicut in.b. per ſcꝺaȝ ꝯnem:qꝛ alteratio que eſt in medietate remiſſiori.b. nihil faciet ad inductionē gᵘ ſummi in medietate eiꝰ intenſiori:nec etiā tres quarte remiſſiores alterate aliqꝺ faciūt ad inductionē gradus ſummi in quarta eius intenſiſſima: ⁊ ſic in infinitū:ḡ in qꝺlȝ illoꝝ equeuer incipit gᵘ ſummus induci ſicut ſi per totū inciperet iſto gradu alterari:⁊ ēt tunc in qꝺlȝ illoꝝ īcipit gᵘ ſummꝰ equeuer induci ſicut in.b.igitr nūc in qꝺlȝ illoꝝ incipit gᵘ ſummꝰ equer induci ſicut in.b. ⁊ in nulla ꝓportiōe tardius in.a.q̄ in aliqꝺ illoꝝ:qꝛ p infinitā modicā partē incipit aliqꝺ illoꝝ alterari ſicut.a.ergo in nulla ꝓportione tardiꝰ incipit gradus ſummꝰ induci in a.q̄ in.b.⁊ aliqn̄ in certa ꝓportiōe tardiꝰ inducetr in.a.q̄ in.b.ergo nō ꝯtinue vniforr inducetr in.a.b.Et ꝙ aliqn̄ tardius inducetr in.a.pȝ:qꝛ ad oēm punctū.b.citius deueniet gradus ſummꝰ q̄ ad punctū correſpondentē.a. qꝺ nō eēt niſi aliqn̄ tardiꝰ inducetr in.a.q̄ in.b.ꝯña ⁊ minor patēt:⁊ maior arguitr ſic.ad oēm punctum.b.citiꝰ erit alteratio q̄ ad punctū correſpondentē.a. qꝛ ad oēm punctum.b. nunc incipit eſſe alteratio:⁊ magnū tꝑs erit anteq̄ ad aliquē punctum certū.a.intrinſecū deueniet alteratio vt ponitr in caſu ⁊ in oī puncto.a.erit ꝑciſe equeuelox alteratio ſicut ad punctū correſpondenteȝ.b. vt ponitr in caſu:ergo cū oīs punctꝰ.a. eq̄lr diſtet a ſummo ſicut punctus correſpondens.b.pȝ ꝙ ad omnē punctū.b.citiꝰ deueniet gradus ſummꝰ q̄ ad punctū correſpondentē.a.ḡ ſequitr ꝙ nō vniforr inducetr per.a.ḡ ꝯcl'o fl'a. ¶ Secūdo arguitr ſic. Si ad oīa puncta.a. equecito eſſet alteratio:tūc ſicut puncta extremꝰ intēſiori ſunt ꝓpinq̄ora: ita ad iſta gᵘ ſummꝰ citius deueniret: eo ꝙ alteratio eſſet eq̄lis ad oīa illa puncta:ḡ tunc vnir inducetr gradus ſum-

3 regula

2

2º

mus.cuꝫ ḡ ad puncta ꝓpingora extremo intenſiori citius
erit alteratio ꝙ̄ ad puncta remotiora ⁊ eq̄lis: ſeq̄ꝰ ꝙ nunc
nō vniꝰ inducet gradus ſummꝰ: ſꝫ in multo maiori ꝓpor
tione citiꝰ deueniet gradus ſummꝰ ad pūcta ꝓpingora ꝙ̄
ſit ꝓportio per quā iſta illi extremo ſunt ꝓpingora: ⁊ per
ꝯñs nō vniꝰ inducet. ❡ Tertio arꝰ ſic. Data ꝯne ſequit ꝙ
pª ꝯ 3 equeueꝰ incipit gradus ſummꝰ induci in.a. ſicut in.b. ⁊ nō
reglas equeueꝰ. ❡ Silr̄ hic ſequeret ꝙ equeueꝰ ꝯtiꝰ induceretur
2ª gradus ſummꝰ in.a.ſicut in.b.⁊ tñ ꝯtinue in duplo tardius
3ª inducet in.a.ꝙ̄ in.b. ❡ Silr̄ ſeq̄ ꝙ in qōlꝫ illoꝝ equeueꝰ
incipit gradus ſummꝰ iduci ſicut in.b.⁊ in.b.⁊ in quodlibꝫ
illoꝝ ꝯtinue vniforꝰ inducet ⁊ tñ infinite tarde ꝯtinue in
4ª ducet ḡdus ſummꝰ in aliqō illoꝝ. ❡ Jteꝫ ſeq̄ ꝙ oīa iſta
ſunt ⁊ erūt ꝯtinue ꝯſilīa quātitatiue: ⁊ in qōlꝫ ꝯtiꝰ equeueꝰ
iducet gradus ſummꝰ ſicut in.b.⁊ per.b. deueniet in hora
gradus ſummus ⁊ in nullo tpe finito per qōlꝫ iſtoꝝ deue
niet gradus ſummꝰ deductis ꝯdenſatiōe ⁊ rarefactione ⁊
alijs. ❡ Pria ⁊ 2ª ꝯcludunt ꝯdictionē manifeſte ⁊ 3ª ſilr̄:
qꝛ ſi equeueꝰ incipit gradus ſummꝰ induci in qōlibꝫ iſtoꝝ
ſicut in.b.⁊ in.b.⁊ in qōlꝫ vniforꝰ: ḡ equeueꝰ ꝯtinue iducet
gradus ſummꝰ in qōlꝫ ſicut in.b.⁊ infinite tarde ꝯtinue in
aliqō: ḡ infinite tarde ꝯtinue in.b. ꝯñs eſt ipoſſe: qꝛ tūc per
nihil inducet gradus. ❡ Cōſilr̄ arꝰ cōtra quartā: qꝛ exquo
in oīa equeueꝰ inducet ſicut in.b.⁊ ſunt ⁊ ꝯtinue erūt eq̄lia
quātitatiue ⁊ nō erit ꝯdēſatio nec rarefactio: ḡ equeciro ꝑ
oīa inducet gradus ſummus ſicut in.b. ḡ ſi per.b. in hora:
ſequit ꝙ per qōcūqꝫ aliud in hora. ❡ Prima tñ ꝯ ſic arꝰ.
nam pª pars arguta eſt ſuꝑ: ⁊ 2ª ſic arꝰ. Aliqñ tardiꝰ indu
cet in.a.ꝙ̄ in.b.⁊ in vtraqꝫ ꝯtinue iducet vniforꝰ: ḡ tardiꝰ
incipit in.a.ꝙ̄ in.b.ꝯña pꝫ: ⁊ minor ſarguit: ⁊ maior pꝫ per
pmā ꝯnem tertij capl̄i.ſ.per pmā ꝯ quā nūc argꝰ: ḡ ſeq̄ ꝯ.
❡ Sc̄da ꝯclō ēt pꝫ in eodeꝫ caſu: qꝛ per ſarguta equeueꝰ
incipit gradus ſummus induci in.a.ſicut in.b. ⁊ cōtinue in
vtrūqꝫ inducet vniforꝰ: ḡ equeueꝰ inducet in.a.ſicut in.b.
ergo hꝫ pª pꝫ ꝯnis. 2ª ſic arguit. Ad oēm punctū.b. eq̄citō
deueniet gradus ſummꝰ ſicut ad punctū corrīdentē in.a.
deueniet alteratio: ⁊ ad oēm pūctū.a.per eq̄le tp̄s durabit
alteratio ſicut ad punctū corrīdentē in.b. ḡ tp̄s cōpoſitum
ex tpe ꝑcedēte alteratione.a.ad punctū quecūqꝫ ſignatū ⁊
eodeꝫ tpe per qō ad illuꝫ eundeꝫ durabit alteratio erit du
pluꝫ ad tp̄s in quo inducet gꝰ ſummꝰ ad punctū corrīden
tem in.b.qꝛ oē cōpoſitū ex duobꝰ eq̄libꝰ eſt duᵐ ad vnuꝫ
iſtoꝝ per ſe. Maior arꝰ.ſ.ꝙ ad oēm pūctū.b. equeciro de
ueniet gꝰ ſummꝰ ſicut ad punctū corrīdentē in.a.deueniet
alteratio: qꝛ per.b.in illa hora vniꝰ ꝓgrediet gꝰ ſummus: ⁊
ſic ēt erit de alteratiōe in.a.qꝛ ipſa in hora vniꝰ ꝓgrediet
in.a.vt ponit in caſu. Et ꝙ ad oēm pūctū.a.per equale tp̄s
durabit alteratio ſicut ad punctū corrīdentem in.b.pꝫ: qꝛ
oīa pūcta corrīdentia.a.b.eq̄lr̄ diſtant a ſummo: ⁊ altera
tio ꝑciſe erit eq̄lis in.a.⁊.b.cū ḡ ceſſante alteratiōe ad pū
ctuꝫ aliquē.a.erit ibi gradus ſummꝰ vt ponit caſus: ⁊ ſic ēt
de.b.pꝫ ergo ꝙ in duplo citius deueniet gradus ſummus
ad oēm punctū.b.ꝙ̄ ad punctū corrīdentē in.a.⁊ per ꝯñs
in duplo citiꝰ inducet gradus ſummꝰ per.b.ꝙ̄ per.a. Silr̄
hoc argᵐ ꝓbat ꝙ vniforꝰ ꝯtinue inducet gꝰ ſummꝰ in.a.qꝛ
in.b.vniforꝰ inducet ⁊ in duplo tardiꝰ ꝯtinue in.a. ꝙ̄ in.b.
ergo in.a.vniforꝰ. ❡ Jtē arguit ꝙ in.a.in duplo tardiꝰ cō
tinue inducet gꝰ ſummꝰ ꝙ̄ in.b.qꝛ finis illiꝰ hore erit anq̄
ad extremū remiſſiꝰ.a.deueniret alteratio: ⁊ mediāte iſta
alteratiōe pōt extremū remiſſius ꝑciſe in hora fieri ſūmū
vt pꝫ per caſuꝫ: qꝛ per aliā horā ibi erit alteratio: ſeq̄ ḡ ꝙ
due hore erūt anteq̄.a.per totū erit ſūmū: tunc arguit ſic.
Jn hora fiet.b.ſummū: ⁊ ꝑciſe in duabꝰ horis fiet.a.ſūmū.
ergo in duplo citiꝰ fiet.b.ſummū ꝙ̄.a.⁊ per vtrūqꝫ vniforꝰ
inducet gꝰ ſummꝰ vt in ꝯne ꝓxīa eſt argutū: ḡ in duꝰ tar
dius ꝯtinue inducet in.a.ꝙ̄.in.b.eo ꝙ ꝯtinue ſunt ⁊ erunt
eq̄lia q̄ntitatiue: ḡ pꝫ iſta 2ª ꝯclō. ❡ Tertia ꝯclō argꝰ ſic.
Ponat ꝙ in duꝰ tardiꝰ generet alteratio in pmo īfinitoꝝ
ꝙ̄ in.a.quoꝝ qōlꝫ ſit eq̄le q̄ntitatiue cū.a.⁊.b.⁊ ēt q̄litatiue
⁊ in duꝰ tardius in 2ᵒ ꝙ̄ in pmo: ⁊ ſic in infiᵐ: ita ꝙ in qōlꝫ
iſtoꝝ infinitoꝝ vniforꝰ ꝓgrediat alteratio terminata ſicut
eſt iſta que ꝓgredit in.a.⁊ in qōlꝫ poſterius in duꝰ maiori
tpe ꝑciſe ꝙ̄ in illud qō immeᵉ ꝑcedit: quo poſito ſeq̄ ꝙ per
qōlꝫ iſtoꝝ vniforꝰ inducet gꝰ ſummꝰ per argᵐ factū de.a.
qꝛ ꝓporꝰ ſicut puncta ſunt ꝓpingora extremo intēſiori ſic
ad illa citius deueniet alteratio: ⁊ per minꝰ tp̄s durabit: qꝛ
fiat illud argᵐ de quolꝫ illoꝝ ſicut fit de.c.d. punctis in.a.
⁊ in quodlꝫ equeueꝰ incipit induci ſicut inducet in.b. vt ꝑ
arguit de.b. Et ꝙ īfinite tarde ꝯtinue iducet gradus ſum
mus in aliqō illoꝝ pꝫ: qꝛ infinite tarde ꝯtinue inducet al
teratio in aliqō iſtoꝝ: ⁊ tardius ꝯtinue inducet gꝰ ſummꝰ
ꝙ̄ alteratio: ḡ infinite tarde cōtinue inducet gradus ſum
mus in aliqō iſtoꝝ. Maior pꝫ ꝑ caſuꝫ: qꝛ ponit ꝙ in duꝰ
tardius progrediat alteratio in 2ᵐ ꝙ̄ in pᵐ: ⁊ ſic deinceps.
Minor etiā pꝫ: qꝛ ad omnē punctū cōtinue erit alteratio
anteq̄ ad illum deueniet gradus ſummꝰ: exquo quodlibꝫ
nūc diſtat a ſummo: ḡ in infinitū tarde cōtinue inducetur
gradus ſummꝰ in aliqō iſtoꝝ: qō fuit ꝓbādū: ſeq̄ ḡ ꝯclō.
❡ Quarta cōcluſio arguit in eodem caſu: qꝛ ſuppoſito ꝙ
in quodlꝫ ꝙ nō ſit cōdenſatio nec rarefactio: qꝛ illud non
foret ad ꝓpoſitū: qꝛ ꝙ in qōlꝫ iſtoꝝ infinitoꝝ equeueloci
ter cōtinue inducet gradus ſummꝰ ſicut in.b. arguit: qꝛ in
quodlꝫ iſtoꝝ equeueblociter incipit induci ſicut in.b. ⁊ in
quodlꝫ vniformiter inducet: ergo in quodlꝫ iſtoꝝ ꝯtinue
equeueblociter inducet ſicut in.b. ꝯñtia nota eſt: ⁊ añs eſt
prearguttū. Et ꝙ īfinitū magnum tp̄s ⁊c̄. arguit: qꝛ infinite
tarde cōtinue inducet in aliqō iſtoꝝ vt argutuꝫ eſt in ꝯne
ꝓxima: ⁊ oīa ſunt equalia quātitatiue ⁊ qualitatiue cuꝫ.b.
ergo per infinitū tp̄s inducet in aliqō illoꝝ. ❡ Jtem due
hore erunt anteq̄ ad extremuꝫ remiſſius primi deueniet
alteratio: ⁊ quatuor hore erunt anteq̄ ad extremū remiſ
ſius ſecūdi deueniet alteratio: ⁊ ſic in infinitū: ⁊ poſtq̄ ad
cuiuſlibet coꝝ extremū remiſſius deuenerit alteratio erit
hora anteq̄ ipſuꝫ fiet ſummū: eo ꝙ nō fiet ſummū anteq̄
extremū remiſſius erit ſummū: ergo tres hore erūt anteq̄
primū illoꝝ erit ſummū: ⁊ quinqꝫ anteq̄ 2ᵐ: ⁊ ſic in infiᵐ:
ergo per infinitū magnū tp̄s inducet gradus ſummus in
aliqō illoꝝ qō fuit ꝓbanduꝫ. ❡ Pro iſtis dicit ꝯcedendo Ad arᵗᵒ
ꝯnem 31ᵃᵐ. Et ad primū argumētū in oppoſitū admittat ꝯ reglaꝫ
caſus: ⁊ negat ꝙ equeueꝰ incipit gradus ſummꝰ induci in
a.ſicut in.b.imo in duplo tardius vt argumētū factū in 2ª
ꝯclōne cōtra iſtā ꝯclōneꝫ 31ᵃᵐ ꝓbat. Et ad argumētuꝫ qñ
arguit ſic. illa ſunt cōſimilr̄ diſpoſita ⁊ ad extrema inten
ſiora incipit eſſe eq̄lis alteratio: ergo equeueꝰ incipit ⁊c̄. ne
gatur ꝯña: qꝛ lꝫ illa nūc ſint ꝯſimilr̄ diſpoſita: tñ plus con
tinue poſt hoc diſtabit aliqs punctꝰ.a.a ſummo ꝙ̄ punctꝰ
corrīdens in.b.eo ꝙ ad oēm punctū.b.equeciro deueniet
gradus ſummꝰ ſicut ad punctū corrīdentē.a. deueniet al
teratio vt notū eſt per argᵐ factū in ꝯclōne illa cōtra iſtaꝫ
ꝯclōnem 31ᵃᵐ. Et ſi ſic cum alteratio ad aliquē punctuꝫ.a.
deuenerit ad iſtum: qualitas per certā latitudinē diſtabit
a ſummo: ⁊ tunc ad punctū corrīdentē.b.erit gꝰ ſummus:
⁊ per ꝯñs infinite plus tūc diſtabit aliqs punctꝰ a ſummo
a.ꝙ̄ punctus corrīdens.b.⁊ ideo lꝫ alteratio erit equeue
loꝝ ad punctū.a.ſicut ad punctū corrīdenteꝫ.b.nō ſequit
ꝙ equeueꝰ inducet gradus ſummꝰ in.a.ſicut in.b. Et tunc
qñ arguit cōtra de illis infinitis admittitur caſus ⁊ cōce
ditur ꝙ in quodlꝫ iſtoꝝ equeueꝰ incipit gradus ſummus
induci ſicut in.b.⁊ negat ꝙ in nulla ꝓporᵉ tardius in.a.ꝙ̄
in aliqō iſtoꝝ: per infinitū modicuꝫ tamē tp̄s durabit in

ductio in aliqđ iſtoꝝ: niſi vbi ponat̃ ꝓgreſſio alterationis
in illis: q2 per p̄ᵐ durabit inductio per medietatē hoꝛe: ga
ſolū3 inducet̃ gradus ſumm⁹ per medietatē eı⁹: ꝛ ſic p 2ᵐ
durabit ſolu3 per quartā hoꝛe: ꝛ ſic in infiᵐ. Si tn̄ ponatur
ꝓgreſſio alteratiōis in illis ſicut erit in.a. in qōl3 iſtoꝝ re/
mittet̃ inductio poſtq̃ gradus ſumm⁹ fuerit inductus per
partem in ꝑncipio alteratā vt p3: quia quil3 punct⁹ vltra
partē talem per plus ↄtinue diſtabit a ſummo in qōlibet
iſtoꝝ q̃ punct⁹ correſpōdens.b. eo ꝙ nūc ad oēm punctū.b.
incipit eſſe alteratio ꝛ nō ad oēm punctu3 iſtoꝝ: ꝛ ſi ſic: ſu/
bito fiet remiſſio inductionis gradus ſūmi in aliqđ iſtoꝝ:
ꝛ ſic nō ꝓcedit argūᵐ. ❡ Ad ſcđm vo argᵐ negat̃ vltima
ↄña qň arguit̃ ꝙ nunc nō vnifoꝛ' inducet̃: q2 ad oēm eius
punctū nūc tardius deueniet gradus q̃ nūc: ſicut ad extreᵐ
remiſſius: ꝛ ideo bene ſequit̃ ꝙ tardius inducetur gradus
ſummus in.a. q̃ tunc inducetur: exquo tamen non ſequi/
tur ꝙ nō vniformiter inducetur. ❡ Et per ꝑdicta ſolūū/
tur oēs cōcluſiones reducte ꝯ ꝯne3 iſtam. Omnia enim in
eoꝝ ꝓbationib⁹ depēdent ſup hoc ꝙ in.a. ꝛ in qōl3 iſtoru3
equeue' incipit gradus ſumm⁹ induci ſicut in.b. qđ tn̄ eſt
negatū. imo vt predicit̃ in duplo tardius incipit in.a. q̃ in
b. ꝛ in ꝑmū iſtoꝝ ifinitoꝝ in duplo tardius q̃ in.a. ꝛ ſic in
Iterum ꝯ eandē re/ſpōſionem. infinitū: ꝛ ſic nō ꝓcedūt argumēta. ❡ Aliter tn̄ arguitur ꝯ
ꝯne3 iſtā 31ᵃᵐ. Na3 vſq3 in finē hoꝛe nulla qualitas acgrit̃
ad extremū remiſſius.a. q2 tunc ꝑmo ad id extremū deue
niet alteratio: g̃ tota pars remiſſa.a. terminabit̃ ↄtinue in
iſta hoꝛa ad ſummū ꝛ ad gᵐ ad quē nunc totū terminat̃ in
extremo remiſſioꝛi ꝛ ↄtinue erit eq̄lis alteratio: g̃ tardi⁹ ꝛ
tardius inducet̃ gradus ſumm⁹. ↄña ſic arguit̃. Signet̃. n.
inſtās mediū iſtius hoꝛe gr̃a exēpli: ꝛ ſeq̄t̃ ꝙ tunc erit vna
quarta a ſumma ꝑciſe: q2 per ꝑarguta in du⁹ veloci⁹ ꝓgre/
diet̃ alteratio q̃ g̃dus ſumm⁹: ꝛ in fine iſti⁹ hoꝛe erit vna
ei⁹ medietas ſumma per ide3 argᵐ: g̃ in fine habebit vna
medietas tantā latitudinē ſicut in inſtāti eius medio habe
bunt tres quarte: ꝛ eode3 gᵒ tunc alterabit̃.a. ſicut in inſtā/
ti medio: g̃ tunc tardius inducet̃ gradus ſumm⁹ in.a. q̃ in
inſtāti medio. ↄña tenet per octauā ꝯne3 vt apparet. Nec
obſtat q2 in fine hoꝛe erit alteratio per totā iſta3 medieta/
tem: ꝛ in inſtāti me⁹ nō erit alteratio niſi per vnā illaꝝ triū
quartaꝝ: q2 l3 in inſtāti medio eēt alteratio per totā partē
eius remiſſaꝝ: nō tn̄ tunc velocius inducet̃ gradus ſumm⁹
in ipm̄ q̃ nūc in inſtāti me⁹ in ipm̄ inducet: eo ꝙ alteratio
in iſta pte remiſſa.a. nō terminata ad ſummū nihil ad idu
ctionē gradus ſummi ꝓficiet: vel faciet ſicut in ꝑmo argᵒ
de illis infinitis eſt argutū: g̃ ſequit̃ ꝙ in fine hoꝛe tardius
inducet̃ gradus ſumm⁹ q̃ in inſtāti medio eiuſde3 hoꝛe. ꝛ
ſic arguēdu3 eſt ꝙ ſemꝑ in inſtāti poſteriori tardius indu
cet̃ gradus ſumm⁹ q̃ in ꝑoꝛi: eo ꝙ ſemꝑ ps poſterioꝛ erit
minoꝛ pte prioꝛi remiſſa eq̄li latitudine diſpoſita: g̃ ↄclō
Rñſio. eſt falſa. ❡ Pro iſto dr̃ ꝙ vnifoꝛ' inducetur: ꝛ ad argᵐ qň
arguit̃ ꝙ in fine hoꝛe tardi⁹ inducet̃ gradus ſumm⁹ q̃ in
inſtāti medio. negat̃ ↄña: q2 l3 in inſtāti medio erit tota ps
eius remiſſa maioꝛ q̃ in fine: ꝛ eq̄li latitudine diſpoſita in
inſtāti medio: tn̄ nō erit tota ps remiſſa eius vnifoꝛ' diffoꝛ
mis ſicut eſt in fine: qđ ſic declarat̃. In inſtāti medio erit
alteratio ad punctū mediū ꝛ ſolū per ſcđa3 quartā totius
vocādo ꝑmā eius 4ᵃᵐ quartā intēſiſſimā ſicut p3 ex ꝑdi/
ctis: g̃ vna ei⁹ medietas. ſ. remiſſioꝛ tunc hēbit eq̄le3 latⁿᵉᵐ
ſicut in ꝑncipio. ſ. medietatē totius latitudinis: ꝛ tota pars
remiſſa tunc habebit totā iſtam latitudinē vt ꝑdicit̃: ergo
quarta eius tunc erit diſpoſita medietate iſtius latitudis: ꝛ
per ↄñs tota pars remiſſa nō erit vnifoꝛ' diffoꝛmis: ꝛ iſta
alia ↄclō allegata loquit̃ vbi vtrūq3 ſubiectu3 eſt vnifoꝛ'
diffoꝛme. ſ. equali latitudine: ꝛ ita nō ꝓcedit argumentuꝫ.
❡ S3 ſi querat̃: qualr̃ ergo equeue' inducet̃ gᵒ ſumm⁹ in

fine hoꝛe ſicut in inſtāti medio: dr̃ ꝙ in inſtanti medio erit
vna eius quarta vnifoꝛ' diffoꝛmis terminata ad ſummu3
cōtinens medietatē toti⁹ latitudinis ꝛ in fine hoꝛe erit vna
medietas eius vnifoꝛ' diffoꝛmis tota latitudine terminata
ad ſummū: ꝛ in inſtāti medio per totā iſtā quartā ſolū erit
alteratio equeueloꝝ ſicut in fine erit per iſtā medietate3: g̃
per gntā ꝯne3 tunc equeue' inducet̃ gradus ſumm⁹ in me
dietatē iſtā ſicut in inſtāti medio per iſtā quartā: ſicut eni3
medietas eſt dupla ad quartā: ita latitudo qua medietas
tunc erit vnifoꝛ' diffoꝛmis erit dupla ad latitudinē exten/
ſam per illa3 quartā. Añs p3 per ꝑdicta ꝓpter hoc ꝙ tam
medietas.a. in fine q̃ etiā quarta eius in inſtāti me⁹ erunt
vnifoꝛ' diffoꝛmes: q2 ſemꝑ qň generat̃ gradus alteratiōis
vnifoꝛ' per ſubiectū aliqđ manens in tota latitudine acq/
ſita erit vnifoꝛ' diffoꝛmis ſicut in poſterū arguet̃: vbi tan/
get̃ qualr̃ ſubiectū pōt vnifoꝛ' diffoꝛm' per partiale3 ge/
nerationē alterationis ꝛc. cu3 ergo latitudo in.a. medietate
ꝛ etiā latitudo in iſta quarta ſint vnifoꝛ' diffoꝛmes: quarū
extremis intenſioꝛib⁹ addent̃ extrema intēſioꝛa latitudi/
num in inſtāti medio ꝛ in fine acquiſitaꝝ: p3 ꝙ in fine ꝛ in
inſtāti medio erunt vnifoꝛ' diffoꝛmes: qđ fuit ꝓbandum.
ↄña per ꝯne3 tertiā ſatis p3. cū ergo in inſtāti me⁹ equeue'
inducet̃ gradus ſumm⁹ in.a. ſicut in eius quartā ꝛc. ſequit̃
ꝙ in inſtāti medio equeue' inducet̃ gᵒ ſumm⁹ in.a. ſicut in
fine iſti⁹ hoꝛe: ꝛ ſic nō ꝓcedit argᵐ. ❡ Capitm 4ᵐ.

PEnes quid attēditur inductio gradus ſum/
mi in ſubiecto rarefacto vel maioꝛa/
to poteſt dubitari. Primo nunquid attendatur ꝑᵒ pō
penes ſpatium fixu3 illi ſubiecto maioꝛato coꝛ/
reſpōdens vt ſi nunc ſit totum pedale qđ rareſiat: nunqđ pe/
nes illud ſubiectū per qđ inducit̃ attēdat̃ inductio: vel pe 2ᵒ pō
nes ſpatiū fixum illi ſubiecto extra coꝛreſpōdēs. Et arguit̃ ꝙ
nō attendat̃ penes ſpatiū fixum. ❡ Sed eſt ꝑmo notādū Nota
ꝙ in iſta mā̃ pro eode3 hn̄da ſunt: aliquid vnifoꝛ' quo ad
ſubiectū rarefieri ꝛ quāl3 partē iſtius eq̄le3 equalr̃ acqui/
rere de quātitate. Idem etiā eſt duo ineq̄lia equeue' rare/
fieri: ꝛ ꝓpoꝛ' ſicut vnū eſt alio maius ita velocius acqrere
de quātitate. rarefieri aūt vnifoꝛ' ſm̄ tp̄s eſt id ſubm̄ in oī
pte tp̄is eq̄li eq̄le3 q̄ntitatē acqrere. ❡ Ex his eſt māifeſtū Coꝛᵐ ꝑᵐ
ꝙ ſi aliqđ vnifoꝛ' diffoꝛme rareſiat vnifoꝛ' quo ad ſubm̄
alijs motib⁹ deductis tēpoꝝ ſemꝑ manebit vnifoꝛ' diffoꝛ
me: exquo. n. oēs ptes eq̄les eq̄lr̃ ↄtinēt de latitudie: ꝛ oēs
ptes nūc eq̄les ſemꝑ erūt eq̄les oī alio motu ꝺducto: ſeq̄t̃
ꝙ quel3 pars eq̄lis eq̄lr̃ ↄtinue ↄtinebit de latitudie: ꝛ per
ↄñs totum manebit vnifoꝛ' diffoꝛme. ❡ Ex his hr̃ ꝙ ſi ſit 2ᵐ
vnifoꝛ' diffoꝛme ꝛ alteratū vno gradu vniformi ipm̄ ma/
nebit vnifoꝛ' diffoꝛme ſi rareſiat vnifoꝛ' quo ad ſubiectū:
q2 ſi nō rarefieret maneret vnifoꝛ' diffoꝛme: vt per ſcđa3
ꝯnem totius ſatis p3: ꝛ per ꝓximā notabilitatē iſta rarefa
ctio nihil ad toti⁹ faciet diffoꝛmitatē: eo ꝙ erit vniformis
quo ad ſub3: g̃ id manebit vnifoꝛ' diffoꝛme. ❡ Iſtis ſup/
poſitis arguit̃ ꝯ ſuppōnē ꝑmā. Sit eni3.a. pedale vnifoꝛ' ꝯ ꝑmā pōnem.
diffoꝛme terminatū ad ſummū alteratū vno gradu vnifoꝛ/
mi quo poſſit fieri ſummū in hoꝛa ꝛ rareſiat ad duplu3 in
iſta hoꝛa in qua fiet ſummū quieſcēte extremo remiſſioꝛi:
que rarefactio ſit vniformis quo ad tp̄s ꝛ etiā quo ad ptes
ſubiecti: ꝛ ſit.b. oīno ſimile.a. qualitatiue ꝛ quātitatiue. Et
ponant̃ oīa de.b. ſicut de.a. preter hoc ꝙ nō ſit maioꝛatio
b. quo poſito ſequit̃ ꝙ equeue' incipit gradus ſumm⁹ in/
duci in.a. ſicut in.b. vel velocius: eo ꝙ ſubiectū eius incipit
eſſe maius: ꝛ in.b. ↄtinue equeue' inducet̃ ſicut extremū.a.
mouebit̃ localr̃: eo ꝙ per gradu3 ſummū.b. pertranſibit̃
pedale ſicut per illud extremū.a. ꝛ in.a. cōtinue velocius
ꝛ velocius inducet̃: eo ꝙ quel3 pars.a. cōtinue erit maioꝛ
q̃ nunc: ꝛ cōtinue poſt qōlibet inſtans maioꝛ q̃ in iſto in/
ſtanti:

ſtanti:ꝛ ſi ſubm nunc ſtaret nō maioratum tūc ꝯtinue vniformiter:ergo nūc ꝯtinue velocius ꝛ velocius ꝛc̃.ꝛ per cōſequēs nunc ꝯtinue velocius induceꝛ̃ gradus ſūmus in.a. ꝙ̃ extremum eius mouebiꝛ̃ localiter.cum ꝗ̊ pūctus velociſſime motus.a.ptrāſibit in hora pedale:ergo iſte gradus plus ꝙ̃ pedale in illa hora ptrāſibit:ꝛ ſpatiū fixū per qḋ diſtat ab extremo remiſſiori eſt pedale ſolū:ergo penes illud nō habet velocitas inductionis attēdi. ¶ Ideo forte dicitꝛ̃ ꝙ inductio gradus ſūmi in.a.corrīdebit gradui intēſiori ꝙ̃ inductio gradus ſūmi in.b.ꝛ etiā ꝙ̃ motus extremi.a.attēdēdo inductionē penes ſpatiū fixum ꝛ nō in vtrūqꝫ ſolū induceꝛ̃ per vnū pedale:eo ꝙ erit motus retrogradus gradus ſūmi in.a.ſic ꝙ alicui pūcto ſpatij fixi ṗ correſpōdebit gradus ſūmus vel pūct⁹ habēs gᵐ ſūmum cui poſt gradus ſūmus nō corrīdebit:ꝛ ita prius corrīdebit ſic ꝙ per eādē partē iſtius fixi bis vel ter mouebitur gradus ſūmus. ¶ Cōtra illud arguiꝛ̃:qꝛ ſi ſic.ſit iſte punctus ſpatij fixi.c.cui ṗmo corrīdebit pūct⁹ habēs.ſ.gᵐ ſūmū:ꝛ poſt pūctus hñs gᵐ remiſſum cum ad.c.pūctū deuenerit:ꝛ ſit nūc grā exēpli inſtās in quo pūctus terminās partē ſūmā eſt ad.c.pūctum:tūc ad oēm punctū.a.vltra c.erit gradus ſūmus anteꝙ̃ iſte per rarefactionē ad.c.pūctū deueniet:qꝛ ſi nō ſit.d.iſte gradus ſūmus ad quē nō:ꝛ arguiꝛ̃ ꝙ ſic:qꝛ gradus ſūmus.c.pūcto corrīdēs equaliter diſtat a.d.ſicut.d.a.c.ꝛ cōtinue velocius accedet verſus.d.ꝙ̃.d.v̾ſus.c.ꝗ̊ gradus ſūmus deueniet ad.d.anteꝙ̃ d.ad.c.ꝯñia pꝫ:ꝛ maior nota eſt.ꝛ minor pꝫ per hoc ꝙ velocior erit motus iſtius gradus ꝙ̃ pūcti velociſſime moti iſtius a quo pūcto ꝗlibet pūctus itrinſecus tardius ꝯtinue mouebiꝛ̃.pꝫ ergo oppoſitū pōnis.Et tñ hoc argᵐ nō videtur formale.pꝫ ꝑpter rarefactionē.a.ꝛ motū pūctoꝝ:qꝛ vt apparet cum ante ſtat motus retrogradus. ¶ Ideo arguiꝛ̃ ſic ꝛ melius.Si.a.nō rarefieret:imo.d.pūct⁹ per motū localē eq̃uelociter accederet ad.c.ſicut nūc:tūc iſte gradus ſūmus velocius induceꝛ̃ ꝛ flueret v̾ſus.d.ꝙ̃.d.v̾ſus.c.ꝛ diſtātia foret equalis inter.d.ꝛ.c.ꝛ inter gᵐ ſūmū:ꝛ per ꝯſequēs citius deueniret gradus ſūmus ad.d.ꝙ̃.d.ad.c.et nūc poſita rarefactione ad oēm pūctum.a.equecito deueniet gradus ſūmus ſicut ſi nō rarefieret vt ꝯſtat:eo ꝙ ad oēm pūctum nūc erit equalis alteratio ſicut tūc eſſet:ergo nūc ad.d.citius deueniet gradus ſūmus ꝙ̃.d.ad.c.ꝯſequētia pꝫ ꝛ maior ſilr.ſ.illa cōditionalis:qꝛ velocius induceꝛ̃ gradus ſūmus in.a.ꝙ̃ in ṗn°:et in ṗncipio equalr induceꝛ̃ ſicut extremū mouebiꝛ̃:ꝛ.d.pūctus:ꝛ quiſqꝫ alius itrinſecus multo tardius mouebiꝛ̃ ꝙ̃ extremū:ergo nūc veloci⁹ accederet gradus ſūmus ad.d.ꝙ̃.d.ad.c.et, per ꝯñs citius deueniret ad.d.ꝙ̃.d.ad.c.vt p̄arguitū eſt:eſt ꝛ nūc ita cito ſicut tūc:ergo nunc citius induceꝛ̃ gradus ſūmus ad.d. ꝙ̃.d.deueniet ad.c.ꝛ ſic de omni alio pūcto ſpatij fixi eſt arguēdū:ꝛ de omni pūcto ſilr:ergo ſeqꝛ̃ ꝙ ad nullū punctū ſpatij fixi ṗciſe erit gradus ſūmus cui poſtea pūctus a.hñs gᵐ remiſſum corrīdebit.ideo illa ratio ponens motū retrogradū nulla eſt.

2° ¶ Scḋo ad ṗncipale arguiꝛ̃ ſic. Sequiꝛ̃ ꝙ tardius induceꝛ̃ gradus ſūmus in ſubm rarefactū ꝛ motum ꝙ̃ ſi ſtaret oibus alijs exiſtētib⁹ paribus:qꝛ ad oēm pūctū.a.equecito deueniet gradus ſūmus in caſu poſito ſicut ſi ſtaret:ꝛ ꝗlibet pūct⁹ iſtius.a.incipit eē ꝓpinquior pūcto terminātī ſpatiū fixum a quo incipit gradus ſūmus fluere ꝙ̃ ſi.a.ſtaret:vt ſatis pꝫ:eo ꝙ ꝗlibet pūct⁹ iſtius.a.diſtās ab iſto extremo incipit accedere v̾ſus id extremū:ergo nūc incipit gradus ſūmus minus de ſpatio fixo trāſire ꝙ̃ ſi ſubm maneret nō rarefactum:ꝛ per cōſequēs iuxta poſitionē tardius incipit gradus ſūmus induci:cuius tñ oppoſitū ab oibus eſt ꝯceſſū.

3° ¶ Tertio ꝯtra poſitionē arguiꝛ̃ ſic.Ex illa ſequiꝛ̃ ꝙ inductio gradus ſūmi cōtinue erit certe velox ꝛ vniformis:que tamē nullius erit velocitatis.Ponatur enim ꝙ.a.ſit vniformiter diffor me terminatū ad ſūmum:ꝛ vt prius alteratū gradu quo fiat ſūmum in hora:ꝛ moueaꝛ̃ ꝗlibet pūctus in.a.preciſe equeulociter per motū localē ſiue per rarefactionē verſus extremū ſpatij fixi:vbi in ṗncipio eſt gradus ſūmus ſicut gradus ſūmus induceꝛ̃ in.a.ꝛ maneat cōtinue quātitatis ſicut nūc eſt:quo poſito ſequiꝛ̃ ꝙ gradus ſūmus vniformiter induceꝛ̃:qꝛ.a.eſt vniformiter difforme manēs quātitatiue ꝛc̃.Et ꝙ nullius velocitatis erit inductio arguiꝛ̃ ſic, Sit.c.extremū id ſpatij fixi:ꝛ ſequiꝛ̃ ꝙ illi extremo ſiue pūcto gradus ſūmus vel pūctus terminās partē.a.ſcḋm ſe totā remiſſam cōtinue correſpōdebit:qꝛ gradus ſūmus ab omni pūcto.a.equalr diſtat ſicut iſte pūctus diſtat a.c, ꝛ gradus ſūmus verſus talē pūctū.a.equeuelociter accedet ſicut ille verſus.c.ergo equecito ad oēm talem pūctū deueniet gradus ſūmus ſicut ille pūctus ad.c.ſequiꝛ̃ ergo ꝙ ſemꝑ eidē pūcto ſpatij fixi gradus ſūmus correſpōdebit:ergo nihil de ſpatio fixo pertrāſibit:ꝛ per ꝯſequēs illa inductio nullius erit velocitatis:qḋ fuit ꝓbādum.Quare ex poſitione ſequiꝛ̃ ꝙ eſt impoſſibile.

¶ Itē ex illa poſitione ſequiꝛ̃ ꝙ inductio gradus ſūmi cōtinue erit vniformis que cōtinue erit velocior ꝛ velocior.nā ſit.a.vt ṗus: cuius ꝗlibet pūctus incipiat moueri vt ṗus:ꝛ remittat ꝗlibet pūctus motū ſuum vniformiter ad nō gradū in hora data:tūc in inſtāti medio iſtius hore erit gradus ſummus ad pūctū mediū.a.ꝛ iſte pūctus medius.a.tūc diſtabit a c.pūcto ſpatij fixi per vnā quartā ſemipedalis:eo ꝙ mediante motu quo incipit moueri deueniret ad.c.in iſto inſtāti:ſed nūc eius motus vniformiter remitteꝛ̃ ad ſubduplum:ergo nunc in ſexqꝫ° minus trāſibit ille punctus medius:ꝛ per ꝯſequēs tres quartas ſemipedalis:ſequiꝛ̃ ergo ꝙ tūc diſtabit iſte gradus ꝛ pūctus medius toti⁹ per quartam ſemipedalis a.c.puncto:ꝛ in fine totius hore diſtabit gradus ſūmus ab illo extremo.c.per ſemipedale:qꝛ tunc erit ad extremū remiſſius iſtius.a.qḋ in fine diſtabit ab extremo ſpatij fixi ſcilꝫ a.c.puncto per ſemipedale:vt patet intuēti:ergo in triplo plus de ſpatio fixo ptrāſibit gradus ſūmus in ſcḋa medietate ꝙ̃ in ṗ°:ꝛ per ꝯſequēs iuxta iſtā poſitionē gradui in triplo intēſiori correſpōdebit inductio in ſcḋa medietate ꝙ̃ in ṗma.ergo ſequiꝛ̃ cōcluſio. 4°

¶ Itē ſi ꝗlibet pūctus a nō gradu intēdat motū vniformiter tardior ꝛ tardior erit inductio vt ꝯſtat intuēti:ꝛ etiā multa alia inconueniētia ſequunꝛ̃ illam poſitionē intuēti. 5°

¶ Sed fundamētū iſtius poſitionis eſt hoc:ꝛ eſt valde euidēs.Capiaꝛ̃ vnum vniformiter difforme vt prius:qḋ ſit.a.ꝛ cōdenſeꝛ̃ in ṗma medietate illius hore in qua fiet ſūmum ad ſubduplū ꝛ hoc vniformiter:et in ſcḋa medietate eiuſdē hore rarefiat vniformiter ad quātitatē prius habitā ꝛ quieſcat cōtinue extremū remiſſius illius:ꝛ capiaꝛ̃ vnus punctus qui cōtinue corrīdebit gradui ſūmo; quo poſito ſequiꝛ̃ ꝙ iſte pūctus ꝯtinue velocius mouebitur in ṗma medietate iſtius hore ꝙ̃ in ſcḋa.Sit enim.a.in ṗncipio bipedale grā exēpli:ꝛ ſequiꝛ̃ ꝙ in inſtanti medio erit totū pedale ad cuius pūctum mediū tūc erit gradus ſūmus:ꝛ per conſequēs ab iſto tūc erunt tria ſemipedalia pertrāſita:ꝛ in ſcḋa medietate iſtius iſte pūctus ſolū pertrāſibit ſemipedale:eo ꝙ nullus erit motus retrogradus; vt prius arguitū eſt.Et iſte gradus cōtinue correſpōdebit illi pūcto moto:ideo multo velocius mouebiꝛ̃ gradus ſūmus per inductionē in ṗma medietate hore ꝙ̃ in ſecūda. Sit ergo.b.in ṗncipio equale.a.cōſiliter diſpoſitū cum.a, ꝛ ponatur oīa de.b.ꝑter minorationē quātitatis:ꝛ ſequiꝛ̃ ꝙ per ṗmā medietatē pūctus ſuper.b.tardius mouebiꝛ̃ pūcto moti ſuper.a.ꝛ illa puncta mouebunꝛ̃ ꝯtinue eque Fūdamētū pōnis.

velociter cū gradibus ſuis: ergo gradus ſūmus velocius
inducet̄ in p̄ma medietate tēporis in.a.q̄ȝ in.b.⁊.a.ꝯtinue
erit minus.b. ergo penes ſubm motum nō attendit̄ indu-
2° ctio: ſed ſoluȝ penes ſpatiū fixum. ❡ Scd̄o ſic. Ponat̄.a.
rareſieri ad dupluȝ ⁊c. quieſcēte extremo intēſiori: ⁊ ſit.a.
nūc grā argumēti pedale: ⁊ ſequit̄ ꝙ gradus ſūmus duct⁹
in.a. fluet per bipedale: eo ꝙ nūc diſtat a puncto ad queȝ
erit in fine per bipedale ⁊ punct⁹ manēs cuȝ gradu ſum-
mo ꝑtranſibit bipedale ⁊ gradus ſūmus equal'r cum iſto
pūcto: ergo gradus ſūmus ꝑtrāſibit bipedale: ſȝ de ſpatio
moto nō ꝑtrāſibit bipedale: eo ꝙ pars pertrāſita ⁊ ſūma
cōtinue maiorabunt̄: ergo de ſpatio fixo bipedale ꝑtrāſi-
bit ſicut veruȝ eſt. ſequit̄ ergo ꝙ gradū in duplo intēſiori
corrn̄debit inductio gradus ſūmi in.a. q̄ȝ ſi ſtaret qd̄ non
eſt verū ponēdo inductionē vel eius velocitatē attēdi pe-
nes ſubm motū. ſequit̄ ergo ꝙ attēdit̄ penes ſubm fixum
ſuper qd̄ mouet̄ id ſubm rarefactū. ❡ Pro iſtis ergo di-
cit̄ negādo poſitionē ponētem ꝙ inductio attēdit̄ penes
ſpatiū fixum. Ex 1° enim ſequit̄ ꝙ motus localis impedi-
ret velocitatem inductionis.

2ª pō **Et dicitur** ꝙ velocitas inductionis gradus ſūmi attēdit̄ penes ſubiectuȝ in qd̄ inducit̄.

❡ Pro quo eſt notādū ꝙ ſubto aliquo rarefacto ſiue ex-
tremo remiſſiori quieſcēte ſiue intēſiori: ſi per totuȝ rare-
fiat: ⁊ ſit inductio gradus ſūmi per illud ſubm ꝯſiderādū
eſt quanta quātitas acqrit̄ parti ſūme poſtq̄ȝ illa eſt ſum-
ma: ⁊ cōſiderāduȝ ꝙ ſi illa pars eſſet ablata quāta quāti-
tas remaneret in fine: ⁊ penes illā quātitatē reſiduam ha-
bet velocitas totius inductionis gradus ſūmi attēdi: vt ſi
pedale rareſieret ad duplum: ita ꝙ ſemipedalis quātitas
acqrat̄ parti ſūme poſtq̄ȝ illa eſt ſūma: tunc ſequeſtrata il-
la quātitate ſemipedali remaneret pedale ⁊ ſemipedale
tātuȝ penes quā quātitatē tota illa inductio in toto tpe at-
tendet̄: ita ꝙ eidem gradui corrn̄debit 1a inductio quo gradu
per pedale ⁊ ſemipedale nō rarefacta gradus ſūmus in-
ducet̄. ⁊ ſic de cōdēſatione ſequeſtrata quātitate dep̄dita
in pte remiſſa ipſa exiſtēte remiſſa penes totā quātitateȝ
reſiduā tota inductio gradus ſūmi attēdit̄: vt ſi nūc totuȝ
eſſet pedale cuius vna 4a dep̄deret̄ in parte remiſſa duȝ
fuerit per totuȝ remiſſa penes tres quartas reſiduas tota
inductio attēdit̄. vnde ſubto rarefacto in qd̄ gradus ſum-
mus inducit̄ duplex eſt mot⁹ iſtius gradus ſūmi. vnus eſt
mot⁹ eius ꝓpꝰ ⁊ iſte eſt inductio gradus ſūmi: ⁊ alius lo-
calis quē habet a ſuo ſubto moto in qd̄ inducit̄ per quem
trāſit de ſpatio fixo: ſicut quādo hō mouet̄ in naui mouē-
do per motū ꝓpꝛium ꝑtrāſit ptes nauis: ⁊ per motuȝ nauis
ꝑtrāſit ptes aque. Et mouēte naui verſus eādē diſtam po-
ſitionis verſus quā mouet̄ homo motu huius ꝓpo: motus
quo hō acqrit de ptibus aque eſt velocior q̄ȝ mot⁹ nauis
vel q̄ȝ motus eius ꝓpꝰ. vbi vō ecōtrario mouet̄ nauis in
caſu eidē ſitui aque corrn̄debit idem hō. Et ſic oīno ima-
gināduȝ eſt de inductione gradus ſūmi ⁊ de toto motu lo-
Ad argm pe pōnis cali eiuſdē. ❡ Et tunc ad argm qd̄ eſt fundamentū eiuſdē
poſitionis dicit̄ ꝙ gradus ſūmus tardius ꝯtinue inducet̄
in.a. q̄ȝ in.b. ⁊ negat̄ hec ꝯñtia. gradus ſūmus in vtroq̄ȝ cō-
tinue corrn̄debit pūcto moti in eo. ⁊ ille pūctus in.a. ꝯtinue
velocius mouet̄ q̄ȝ punct⁹ in.b. ergo velocius ꝯtinue indu-
cet̄ gradus ſūmus in.a. q̄ȝ in.b. Sȝ bene ſequit̄ ꝙ mot⁹ lo-
calis illius gradus in.a. per pam medietateȝ iſtius tpis erit
velocior motu locali gradus ſūmi in.b. quo. ſ. tranſibit de
ſpatio fixo: inductio tñ gradus ſūmi in.a. erit tardior q̄ȝ in
b. eo ꝙ.a. ſemꝑ erit minus.b. Et ideo ad argm pm illoꝝ di-
citur ꝙ velocius mouebit̄ gradus ſūmus in medietate pa
iſtius tpis localiter q̄ȝ in 2a. ſ. acqrēdo de ſpatio fixo. Sed
inductio gradus ſūmi in illis duab⁹ medietatib⁹ tēporis

eidē gradui in.a. correſpōdebit ſicut poſtmoduȝ arguet̄.
❡ Pro 2° argumēto dī ꝙ gradus ſūmus fluens in.a. per
motuȝ localē ꝑtrāſibit bipedale. hoc tñ nō erit per motuȝ
eius ꝓpꝛium. ſ. per eius inductionē in.a. ſȝ per motuȝ cōpo-
ſituȝ ex motu eius ꝓpo ⁊ motu ptium ipſius.a. que moue-
bunt̄ local'r per rarefactionē: ⁊ ſic nō eſt verum inductio-
nē penes ſpatiū fixum ⁊c. attēdi: ideo dī vt pꝰus ꝙ attēdit̄
penes ſubm in qd̄ inducit̄. ❡ Cōtra quā pōneȝ arguit̄ ꝓ- ꝯtra 2m
bādo ꝙ.a. erit ſūmuȝ anteq̄ȝ ipm erit ſūmuȝ. Sit enim.a. pōnem,
vnū q̄ntuȝ qd̄ rareſiat ad dupluȝ in hora in qua ſiet ſūmū ꝯclō pº
vniformiter ſm tēpus ⁊ ſm ſubm. ⁊ ſit in pn° vniformiter
difforme terminatū ad ſūmuȝ: ⁊ quieſcat extremm remiſſius
ꝯtinue. Iſto poſito ſequit̄ ꝙ gradus ſūmus ꝯtinue veloci⁹
inducet̄ in.a. ⁊ ꝑciſe per tātuȝ ſubm inducet̄ q̄ntuȝ eſt ſpa-
tiū fixum inter 1m extremm intēſius ⁊ extremm remiſſius quie-
ſcēs: ⁊ ga ⁊ ſi pars ꝑtrāſita ſūma in īfinituȝ rareſieret nō di-
ceremus illū gradum induci per infinitum nec velocitatē illius indu-
ctionis gradui īfinito corrn̄dere: ſȝ ſolū penes illud atten-
det̄: qd̄ ſubm eſt anteq̄ȝ ꝑ ipm gradus ſūmus ſit inductus:
⁊ per tātuȝ ſubm inducet̄ deducta rarefactione: ergo eidē
gradui corrn̄debit inductio cui in pn° ante rarefactionem
corrn̄diſſet. vel ſi gradui intēſiori corrn̄debit. ſequit̄ ꝯclu-
ſio illa deducta: q2 tunc ille gradus ante finē hore deueni-
ret per totuȝ.a. q2 nō erit mot⁹ retrogradus per caſum: et
per caſum nō ante finē erit ſūmum: g̃ erit ſūmum anteq̄ȝ
erit ſūmuȝ. ſequit̄ g̃ illa ꝯcluſio. vel ſequit̄ hec cōcluſio ꝙ
eidē gradui corrn̄det.a. rarefacto ⁊ ipſo nō rarefacto gra-
dus ſūmi inductio: vt pꝰus argutū eſt. ❡ Itē ſequit̄ ꝙ ſpa- 2m
tia fixa corrn̄dētia.a.b. nūc ſunt eq̄lia: ⁊ ꝯtinue erūt equa-
lia ⁊ per mot⁹ inequeueloces in eodē tpe ꝑtrāſientur. Sit
enim.b. equale.a. quātitatiue ⁊ q̄litatiue qd̄ in eodē tpe ra-
reſiat vniformiter ſm tēpus ⁊ ſm ſubm ad ſuuȝ ſexqualte-
rum: quo poſito ſequit̄ ꝙ gradus ſūmus ꝯtinue veloci⁹ in-
ducetur in.a. q̄ȝ in.b. q2 alteret̄.b. ꝑciſe eodē gradu quo.a.
tunc vltra ſeqt̄ ꝙ mot⁹ illius gradus inducti in.a. cōtinue erit
velocior q̄ȝ mot⁹ iſtius gradus inducti in.b. q2 in nulla ꝓ-
portione velocior vel tardior incipit mot⁹ iſtius gradus eſſe
q̄ȝ ſi.a. nō rareſieret: ⁊ ſic etiā de.b. eo ꝙ in nulla ꝓpore in-
cipiunt pūcta eoꝝ eē ꝓpinquiora extremo ſpatij fixi q̄ȝ ſi
nō rareſierēt: ⁊ eadē rōne erit mot⁹ tardior in nullo inſtā-
ti vel velocior in alia ꝓpore q̄ȝ ſi ſtarēt ptunc. Sed q̄cūq̄ȝ
iſtāti dato in certa ꝓpore foret mot⁹ iſtius gradus in.a. ve-
locior in ꝑtranſitione ſpatij fixi q̄ȝ mot⁹ gradus inducti in
b. igit̄ ſequit̄ ꝙ motus gradus ſūmi in.a. ꝯtinue erit velo-
cior ꝑtrāſitio ſpatij fixi q̄ȝ mot⁹ gradus inducti in.b. ⁊ ſpa-
tia fixa ſunt equalia: ⁊ tñ equeuelociter ꝑtrāſient̄: vt patet inuē-
ti. ❡ Itē ꝯtra hāc pōnem ſunt argta facta pro fundamēto
pōnis ꝑcedētis: ⁊ alia que poſtmoduȝ reducent̄. ❡ Ideo
ꝯcedēda eſt poſitio ⁊ negāde ſunt ꝯnes reducte: ⁊ dicit̄ ꝙ
per multo maius ſubm inducet̄ gradus ſūmus q̄ȝ eſt ſpa-
tiū fixum. dicit̄ enim ꝙ īfinite tarde incipit moueri loca-
liter ſuꝑ ſpatiū fixum: q2 cum fuerit 4a totius ſpatij ꝑtrā-
ſita erit gradus ſūmus induct⁹ per medietatē totius.a. per
rarefactionē ⁊ motuȝ localē ptium remiſſaꝝ illius.a. nul-
lus tñ erit mot⁹ retrogradus iſtius gradus vt pꝰus eſt argu-
tū: vt capto vno ſubto pedali moto local'r ſine rarefactio-
ne: cuius glibet punct⁹ in duplo tardius moueret̄ q̄ȝ gra-
dus ſūmus induceret̄: gradus ſūmus de ſpatio fixo ſoluȝ
ꝑtranſiret ſemipedale ⁊ induceret̄ per pedale per obuia-
tionē ptium remiſſaꝝ ad diuerſas ptes fixi ſpatij vt ſatis
pȝ. ⁊ ſic ſoluit̄ 2a cōcluſio que depēdet ſuꝑ hoc ꝙ in nulla
ꝓpoꝛtiōe tardius incipit ille gradus acqrere de ſpatio fi-
xo q̄ȝ ſi nō rareſieret: ſȝ id eſt falſum: in īfinituȝ enim tar-
dius incipit acqrere de tali ſpatio q̄ȝ ſi ſtaret. hoc ſic argr.
Sit enim gradus ſūmus ſic defluens.c. ⁊ ſit gratia exēpli

totum

totum ſpatiũ octo pedaliũ.ſ.fixum.arguiť ꝙ in ꝓma pte ꝓportionali illius hore cõputãdo ptes minores verſus hoc inſtãs.c.pertrãſibit pᵃᵐ ptem ꝓportionalē ⁊ zᵃᵐ:⁊ in ſcḋa parte 3ᵃᵐ ⁊ 4ᵃᵐ:⁊ ſic in infinitũ:⁊ per ꝯſequens gradui in duplo inteñſiori correſpõdebit finis motus in ꝓma pte ꝓportionali hore ꝙ̃ in ſcḋa:⁊ ita de alijs:qa ſit.d.illud ſpatiũ fixum ⁊ ſit extremũ cui correſpõdet in ꝓncipio extreᵐ inteñſius.a.⁊ arguiť ſic. In ꝓma medietate illius hore erit medietas.a.ſũma.cum ergo totũ.a.tũc erit.12.pedũ:ſequit ꝙ ſex pedalia iſtius tunc erũt ſũma:⁊ 4ᵒʳ pedalia illiꝰ medietatis tunc erũt vltra.c.ergo de.d.erit ſolũ bipedale ptrãſitũ qḋ eſt totum ꝓter pᵃᵐ partē ꝓportionalē ⁊ zᵃᵐ:⁊ in tota hora erit totum.d.ptrãſitũ:ergo ſex pedalia illiꝰ erunt ptrãſita in ꝓma pte ꝓportionali hore que ꝯſtituunt pᵃᵐ partē ꝓportionalē ⁊ zᵃᵐ. Siliter in ꝓma 4ᵃ illius hore erit 4ᵃ.a.ptrãſita ⁊ ſũma.cum ergo totũ.a.tunc erit.10. pedalia:ergo tũc erũt bipedale ⁊ ſemipedale ipſius.a.ſũma:⁊ tunc erit bipedale vltra.c.ergo de.d.tũc erit ſolũ ſemipedale ptrãſitum a.c.ꝯſitia tenet:⁊ in fine ſcḋe ptis ꝓportionalis hore erit bipedale de.d.ptrãſitũ.ergo in ſcḋa pte ꝓportionali hore.c.ptrãſibit ſolum pedale et ſemipedale de.d.que ꝯſtituũt 3ᵃᵐ partē ꝓportionalē ⁊ 4ᵃᵐ:ſilr in 8ᵃ hore ptrãſietur 8ᵃ pars totius.a.que tunc erit ſũma: ⁊ erit ſolum pedalis quãtitatis ⁊ 8ᵃ pedis ⁊ vltra.c.erit pedalis tunc de.d.ergo ſolũ 8ᵃ pedis erit ptrãſita de.d.⁊ in fine tertie ptis ꝓportionalis hore erit ſemipedale ptrãſitum de.d.per motum.c.ergo in 3ᵃ parte ꝓportionali hore trãſibit.c.de.d.tres octauas vnius pedis que 5ᵃᵐ ⁊ 6ᵃᵐ partem ꝓportionalem cõponunt:vt patet calculãti. Et ſic arguẽdum eſt de oĩbus ptibus ꝓportionabilibꝰ hore ꝙ vlr in omni parte ꝓportionali iſtius hore in triplo plus ptrãſibit de.d.ꝙ̃ in toto tẽpore ꝓcedẽti:vt ſatis apparere poterit intuẽti. ¶ Sed ꝯtra iſtã reſpõſionē arguiť ſic. Si nũc infinite tarde incipit.c.acqrere de.d.vel moueri localiter cum rarefactione que vniformis erit ⁊.c.ꝯtinue terminabit partē ſm ſe totã remiſſam:ſequiť ꝙ qua rõne nũc infinite tarde incipit moueri localiter ꝙ ꝯtinue ita faciet:⁊ per ꝯſequẽs nihil trãſibit. ¶ Pro iſto diciť negãdo cõſequẽtiã:eo ꝙ nunꝙ̃ infinitũ tardius incipit eſſe morꝰ.c.niſi quãdo extremũ inteñſius ſubi equeuelociter cum iſto gradu incipit moueri ab eodem gradu. Et ita eſt in omni caſu vbi ſubm in eodē tẽpore in quo fiet ſũmum vniformiter rarefiet ad duplũ.vbi tamē nõ rarefiet ad duplũ:ſed ad minus ꝙ̃ ad duplũ quieſcẽte cõtinue extremo remiſſiori ſolũ finite tarde incipit gradus ſũmus acqrere de ſpatio fixo:eo ꝙ in certa ꝓportione incipit talis gradus velociꝰ acqrere de ſubito moto ꝙ̃ aliqs punctꝰ iſtius de ſpatio fixo. Siliter vbi rarefit vltra duplũ ⁊c̃.per magnũ tẽpus fereť vltra extremũ ſpatij fixi cui nunc correſpõdet ꝓpter velocitatē morꝰ pũcti vſq̃.ſ.ad id inſtãs a quo vſq̃ in finē iſtius tẽporis in quo totũ fiet ſũmum ipſum ſubm maiorabiť ad duplũ etiã in iſto inſtãti infinite tarde incipiet moueri localiter.econuerſo verſus aliud extremũ ſpatij fixi.vnde ſi nõ fereť vltra id extremũ ſpatij correſpõdẽs gradui ſũmo per totũ illud tẽpus vſq̃ ad id inſtãs a quo rarefiet ad duplũ infinite tarde moueret localiter:vt patet calculãti. ¶ Itē ex iſta poſitione ſequiť ꝙ infinitũ tarde ꝯtinue erit motus localis gradus ſũmi quo in hora ſpatium pedale erit ptranſitũ/nulla pte illius pedalis ſubito ptrãſita. Silr eidem puncto ſpatij fixi cõtinue correſpõdebit.c.gradus qui aliquãdo per pedale diſtabit a pũcto a quo incipit moueri vel cui cõtinue corrñdebit:poſito ꝙ a.ſit vniformiter difforme terminatũ ad ſũmum vt prius: ⁊ alteratũ gradu vniformi quo fiat ſũmũ in hora ⁊ rarefiat extremo inteñſiori moto:⁊ quieſcẽte extremo remiſſiori ita ꝙ ſemꝑ per ptē ſm ſe totã remiſſam ipſius.a.q̃cũq̃ inſtãti dato rarefiat tali gradu quo poſſit maiorari ad duplũ ab iſto inſtãti vſq̃ in finē hore:⁊ incipiat nũc tali gradu quo poſſet rarefieri ad duplũ in hora equaliter ⁊ fiat rarefactio vniformis ſm ſubm. Tunc per riſionē datã pro q̃libet inſtãti ĩfinite tarde mouebiť gradus ſũmus localiter ſuꝑ ſpatiũ fixum:eo ꝙ pro q̃libet inſtãti terminabit ptē que ab iſto inſtãti vſq̃ ad finē hore rarefiet ad duplũ mediãte gradu quo ꝓtũc rarefiet:ḡ per riſionem datam pro q̃libet inſtãti in infinitũ tarde mouebiť gradus ſũmus localr. ¶ Itē extremũ inteñſius ptis alterãde pro q̃libet inſtanti equeuelociter mouebiť ad gradus ſũmos inducẽdos:eo ꝙ ab iſto inſtãti vſq̃ in finē totũ rarefiet ad duplũ quieſcẽte extremo remiſſiori:ḡ extreᵐ inteñſius tãtũ ptrãſibit quãtum iſte gradus ſi ꝯtinue maneret talis gradus morꝰ:qa tãtum ſicut ꝓtũc erit tota pars.a.remiſſa. ſequiť ḡ ꝙ infinite tarde ꝯtinue erit motus localis gradus ſũmi. Et ꝙ ptrãſibit pedale ſatis pȝ:qa nunc diſtat ab extremo remiſſiori per pedale:⁊ in fine erit ad extremũ remiſſius. Et ꝙ nullã ptē.a.ſubito ptrãſibit nᶜ ſpatij fixi arguiť ſic. Sit.b.tãtũ ſicut erit.a.in fine:⁊ ꝯſilr diſpoſitũ ſicut nunc eſt.a.⁊ altereť eodē gradu quo.a.erit maneat tãtũ in quãtitate ꝯtinue.quo poſito ſequiť ꝙ ad pũcta correſpõdẽtia.a.b.ꝯtinue erit gradus ſũmus:⁊ per ꝯſequens pars alterãda.b.ꝯtinue erit maior parte alterãda.a.eo ꝙ b.ꝯtinue erit maius.a.⁊ ꝯſilr diſpoſitum cum.a.ḡ gradus ſũmus in.b.ꝯtinue plus diſtabit ab extremo remiſſiori ꝙ̃ ſũmus in.a.ab extremo ſuo remiſſiori.cum ḡ nullã ptē.b.ſubito ptrãſibit nec aliquã ptē ſpatij fixi correſpõdentem ipſi.ſequiť ꝙ gradus ſũmus nõ ptrãſibit aliquã ptem ſpatij corrñdẽtis.a.ſubito ḡ ſequiť ꝯcluſio zᵃ:que pȝ in eodem caſu:qa ĩfinitum tardius erit morꝰ:⁊ eidē puncto corrñdebit:⁊ aliqñ erit gradus ſũmus ad extremum remiſſius qḋ diſtat a pũcto nũc correſpõdẽte gradui ſũmo per pedale: ideo ſequiť vtraq̃ cõcluſio. ¶ Itē ſequiť ꝙ.a.nõ diſtabit ab extremo corrñdẽte remotiori extremo per ſemipedale ⁊ 4ᵃᵐ pedalis:⁊ ſic in ĩfinitũ:qa ſic erit de.b.⁊ in.a.cõtinue erit diſtãtia minor ꝙ̃ in.b.per ꝑargumẽ.ḡ ⁊c̃. ⁊ tamē ꝯtinue per pedale diſtabit. ¶ Ideo diciť ꝙ totũ illud pedale qḋ eſt ſpatiũ fixum ſubito ptranſibit. Et qñ poniť ꝙ b.ſit tãtũ ſicut erit.a.in fine:⁊ ꝯſilr diſpoſitũ ſicut nũc eſt a.diciť ꝙ hoc eſt ĩpoſſibile:eo ꝙ.a.rarefiet in infinitũ.impoſſibile enim eſt ĩfinitũ eſſe vniformiter difforme aliq̃ latitudine: ergo caſus eſt ĩpoſſibilis.⁊ ſiliter.a.nõ poterit manere in fine:qa tunc nullus punctꝰ iſtius alicubi foret nec aliq̃ pars ꝓportionalis cõputando ptes minores verſus extreᵐ remiſſius. Uel põt dici ꝙ iſte gradus ſummus nunꝙ̃ ptrãſibit hoc pedale fixũ:eo ꝙ totũ nunꝙ̃ erit ſumũ ⁊c̃. ¶ Ubicũq̃ ſubm aliqḋ vniformiter difforme terminatũ ad ſũmum alteratũ gradu aliquo vel latitudine rarefiat in nulla ꝓportione velocius induciť gradus ſũmus vel incipit induci ꝙ̃ ſi ſubm illud nõ rarefieret:qꝛ ſi ſic:ſit.a.vnum tale ſm ſe totũ remiſſum terminatũ ad ſũmũ ⁊c̃. Et arguiť ſic. Uelocius induciť gradus ſũmus in omne maius:⁊ ꝯſiliter diſpoſitũ cum eo ꝙ̃ nũc induciť in a.vel incipit induci:ſed in ĩfinitũ modicũ velocius ꝓciſe induceretur gradus ſũmus in aliqḋ maius.a.⁊ ꝯſilr cum eo diſpoſitũ mediãte illa alteratione ꝙ̃ in.a.ſi ſtaret:igiť in nulla ꝓportione velocius in.a.⁊c̃.minor patet:qa ĩfinitũ modice eſt.a.aliquo illoꝝ minor. Et maior ſic arguiť. Si nõ in q̃libet maius.a.velocius:ſit illud.c.ꝯtra.per tẽpus erit maioris quãtitatis ꝙ̃.a.vt notum eſt.⁊ ad oĩa puncta a.c.correſpõdẽtia equecito deueniet gradus ſũmus:ḡ per magnũ tẽpus velocius induceť gradus ſũmus in.c.ꝙ̃ in a.qꝛ per maius ſubm inducetur in.c.ꝙ̃ in.a. Aĩs patet:qꝛ

3ᵃ cõclo

ꝯ põnē.

Hoc ē bñ ꝯſiderãdũ nõquid ſit verum.

Notis regula huiꝰ cap. ⁊ 32ᵃ in ordine.

oīa pūcta.a.c.correſpōdētia equaliter diſtāt a ſūmo:⁊ alterationes erunt in.a.c.oīno equales:⁊ ſicut arguitur de.c. ita de quocūqꝫ alio maiori.a.⁊ cōſilr diſpoſito cum eo eſt arguēdum qꝺ in qꝺlibet.ſ.illoꝝ per magnuꝫ tēpus velocius inducet gradus ſūmus ꝙ̄ in.a.Cōſiliter arguitur.Si vna pars.a.ſit ſūma ⁊ reliqua remiſſa:qꝛ ſicut prius argutū eſt de toto.a.ꝙ in ipm tunc tardius inducet gradus ſummus ꝙ̄ in aliqꝺ maius ⁊c̄.Si rareſiat ita arguēduꝫ eſt de pte iſta ſm ſe totā remiſſa ꝙ in eadē pte tardius inducet ꝙ̄ in aliqꝺ maius illa pte ꝯſilr cum iſta pte diſpoſituꝫ.pꝫ ꝑ id pbādum ꝙ tanqꝫ regula obſeruet.

2ª regsore 33ª in ordine. ¶ Si aliqꝺ ſubiectū vniformiter difforme terminatū ad ſūmum alteratum vno gradu vbi rareſiat vniformiter ſm tēpus ⁊ ſm ſubm inductio gradus ſūmi vniformiter intēdet.B ſic pbat.Sit.a.difforme terminatū ad ſūmuꝫ:vt ponit in antecedēte.⁊ ſit.b.ꝯſilr diſpoſitū q̄litatiue ⁊ quātitatiue cuꝫ a.alteratū eo gradu quo.a.nō tn̄ rareſiat.b.tunc pportionabilr ſicut quātitas ipſius.a.erit maior:ita inductio erit velocior:ſꝫ quātitas vniformiter maiorat:ꝫ inductio vniformiter intēdetur.ꝯñia poſtea arguet ⁊ maior pbat:qꝛ ppor ſicut.a.eſt maius.b.ita velocius inducet gradus ſūmus in.a.ꝙ̄ in.b.⁊ in.b.cōtinue ita velociter inducet gradus ſūmus ſicut in pn° incipit induci:⁊.a.eſt tāte q̄ntitatis ſicut cōtinue erit.b.pciſe:ergo ppor ſicut.a.erit maius ꝙ̄ nūc eſt: ita velocius inducet gradus ſūmus in.a.ꝙ̄ nunc.ꝯñia pꝫ:aīs pbat.ſ.ꝙ ppor ſicut.a.erit maius.b.ita velocius inducet gradus ſūmus in.a.ꝙ̄ in.b.qꝛ pportionalr ſicut pars alterāda ipſius.a.erit maior pte alterāda.b.ita velocius inducet gradus ſūmus in.a.ꝙ̄ in.b.⁊ ppor ſicut pars alterāda ipſius.a.erit maior pte alterāda.b.ita.a.erit totū maius toto.b.ꝫ ppor ſic.a.erit maius.b.ita velocius inducet gradus ſūmus in.a.ꝙ̄ in.b.ꝯñia nota eſt:⁊ maior pꝫ per pargūta.⁊ minor pꝫ:qꝛ ptes correſpondētes.a.⁊.b. equeciro forēt ſūme:qꝛ equalr diſtant a ſūmo ⁊ eq̄lis ſiet alteratio ad iſtum punctū:ꝫ tāta ꝯtinue erit pportio.a.ad ptē alterādam ſuā ſicut.b.ad ptēꝫ ſuā alterādā:ꝫ pmutatim ſicut.a.ad.b.ita pars alterāda.a.ad ptem alterādā.b. ergo ꝯcluſio vera.Probat nūc ꝯñia pma que ſic arguit. Uel eſt inductio tāta ſicut quātitas:vel maior vel minor. Si ſit tāta ſicut quātitas:⁊ pportionabilr ſicut quantitas ſiet maior ita inductio ſiet velocior:ꝫ quātitas ⁊ inductio ꝯtinue erunt equales.ꝯñia pꝫ:eo ꝙ tātum ꝯtinue acgret inductioni ſicut quātitati pp̄ter hoc ꝙ ſi equalibꝰ equalia addant relicta ſunt equalia:ꝫ cum quātitas vniformiter maioret:inductio vniformiter maiorabit:qꝛ eq̄uelociter cum quātitate.Si vō inductio ſit minor ꝙ̄ q̄ntitas ⁊ eque ppor augmētent:ſequit ꝙ pportionabilr ſicut inductio eſt minor quātitate:ita minus ꝯtinue acgret de inductione ꝙ̄ de q̄ntitate:ꝫ ſi quātitas vniformiter maioret:inductio etiā vnifor.Si inductio erit maior ꝙ̄ quantitas:ꝫ in iſta ppor plus acgrit de inductiōe ꝙ̄ de quātitate.ꝯñia pꝫ:qꝛ ſi inequalia eque ppor augmētent:ſequit ꝙ ſicut vnuꝫ eſt alio maius:ita pportionabilr ꝯtinue plus acgret maiori ꝙ̄ minori:vt pꝫ.ſequit ꝫ ꝙ ſi inductio eque pportionabilr maioret cum quātitate ⁊ quātitas vniformiter maiorabit ꝙ inductio vnifor intēdet:qꝺ fuit pbādum.

ꝯtra 2am regulaꝫ. ¶ Qꝫ tn̄ illa ſit falſa arguit ſic. Intenſio inductionis gradus ſūmi in.a.ſupra inductionē in.b.cōſequit acgſitioneꝫ pportionis.a.ſupra.b.qꝛ ppor ſicut quātitas ſe hēbit ad quantitatē.b.ſic inductio gradus ſūmi in.a.ſe hēbit ad inductionē gradus ſūmi in.b.vt ſatis ꝯſtat ex predictis.⁊ ſic nūc inter quātitates eſt pportio eq̄litatis:ita īter illas inductiones eſt pportio eq̄litatis:ꝫ vna velocitas acgſitionis ppor quātitatis vel inductionis cōſequit aliā.cum ꝫ tardius ⁊ tardius ꝯtinue maiorabit pportio quātitatis.a. ſupra.b.ſequit ꝙ tardius ⁊ tardius inductio itēdet. Et ꝙ ꝯtinue tardius ⁊ tardius maiorabit pportio.a.ſupra.b.arguit:qꝛ ꝯtinue.a.vnifor acgrit quātitatē ſtāte.b.ꝫ vniformiter maiorabit exceſſus.a.ſupra.b.⁊ per ꝯñs tardius et tardius maiorabit pportio.a.ſupra.b.ſequit iſtā ꝯneꝫ principalē eſſe falſam. ¶ Pro iſto dī ꝯcedēdo ꝯnem:ꝙ.ſ.vlr ſubto tali vniformiter rarefacto ſm ſubiectū:⁊ ſm tēpus vniformiter intēdet inductio:vt pbat argm. ¶ Item ꝯcedit ꝙ in nullo inſtāti in aliqua pportione erit talis inductio velocior ꝙ̄ ſi tunc ſtaret.Et ad argm in oppom intēſio inductionis ⁊c̄.ꝯſequit acgſitioneꝫ pportionis.a.ſupra.b. negat:imo qn̄ arguit ſicut quātitas.a.ad quantitatē.b.ita inductio gradus ſūmi in.a.ad inductionē gradus ſūmi in b.ꝯtinue ſe habebit:ꝫ ad acgſitionē vnius:ſequit acgſitio alterius.negat ꝯñia:imo ꝯcedit ꝙ acgſitio pportiōis inductionis ad inductionē ꝯſequit acgſitionem pportionis quātitatis ſupra quātitatē.Et illud bn̄ ſequit ex pmiſſis:⁊ ideo tardius ⁊ tardius cōtinue maiorabit pportio inductionis ad inductionē:ex quo tn̄ nō ſequit inductionē tardius intēdi:qꝛ quātitas.a.vniformiter maiorabit ⁊ pportio quātitatis ad quātitateꝫ tardius ⁊ tardius maiorabit. Silr eſt de intēſione inductionis ſicut de acgſitione quātitatis ſupra quātitatē vt pbatuꝫ eſt:ideo nō pcedit argm.

¶ Ex iſto ſequit ꝙ cōtinue inducet velocius gradus ſūmus in.b.ꝙ̄ in.a.⁊ tn̄ per magnuꝫ tēps tardius.Sint enim a.⁊.b.vniformiter difformia eadem latitudine terminata ad gradū ſūmuꝫ alterata aliquo gradu quo ſient ſūma in hora ⁊ rareſiat.a.vniformiter ad duplū tam ſm tēpus ꝙ̄ ſm ſubm:⁊ incipiat.b.rareſieri in eodē gradu quo.a.⁊ rareſiat.b.ſolū per ptem ſm ſe totā remiſſam equalr acgrēdo q̄ntitatē ſicut.a.tunc ex quo.b.cōtinue per ptem minoreꝫ ⁊ minorē rareſiet acgredo equalr quātitatē cum.a.ſequit ꝙ gradus rarefactionis in.b.ꝯtinue erit velocior gradu rarefactionis in.a.ꝫ pars alterāda in.b.ꝯtinue erit maior pte alterāda in.a. Aliter pbo ꝙ pars alterāda in.b.cōtinue erit maior pte alterāda in.a.qꝛ.a.⁊.b.continue erit equales:⁊ ꝯtinue erit maior pportio.a.ad ptem ſuā alterādā ꝙ̄.b.ad ptem ſuā alterādam:ꝫ pars alterāda in.b.ꝯtinue erit maior pte alterāda in.a.qꝛ.a.⁊.b.ꝯtr erunt equales:⁊ ꝯtinue erit maior pportio.a.ad pteꝫ ſuā alterādā ꝙ̄ b.ad ptem ſuā alterādā:ꝫ pars alteranda in.b.ꝯtinue erit maioris q̄ntitatis ꝙ̄ pars alterāda in.a.pbo ꝯñiaꝫ.Oiuꝫ duoꝝ equaliū ad 3m eadē eſt pportio:ſꝫ.a.⁊.b.ꝯtinue erunt equales:ꝫ tāta ꝯtinue erit pportio.b.ad ptem alterādā.a. ſicut.a.ad eādē ptem.cum ꝫ maior erit pportio.a.ad pteꝫ ſuā alterādā ꝙ̄.b.ad ſuā.Et ſi aliqꝺ in ppor maioris inequalitatis ſe habeat ad aliqua duo ad minus habet pportionē maiorē:ꝫ pars alterāda.a.ꝯtinue erit minor pte alterāda.b.ꝫ ꝯñia fuit bona.Et pbo aīs.ſ.ꝙ cōtinue eſt maior pportio.a.ad ptem alterādā ꝙ̄.b.ad pteꝫ ſuā. Nam.a. rareſieret ſm ſe totuꝫ:⁊.b.nō rareſieret niſi ſm ptem remiſſam:ꝫ maior erit pportio.a.ad pteꝫ ſuā alterādā ꝙ̄.b. ad ſuā.ꝯñia tenet:qꝛ ſi.b.rareſieret totū:tunc foret eq̄lis pportio.a.ad ptē ſuā remiſſam ſicut eſt.b.ad ptē ſuam remiſſam. Sꝫ nūc pars remiſſa.b.eſt maioris quātitatis ꝙ̄ tūc eēt:qꝛ nūc acgret plus ꝙ̄ tunc acgreret:eo ꝙ nūc acgreret ſicut totuꝫ.b.nūc acgreret ⁊ tunc totū.b.plus acgret ꝙ̄ ſua pars remiſſa:ꝫ pars remiſſa.b.nunc ꝯtinue plus acgret ꝙ̄ ſi.b.rareſieret per totū ſicut ⁊.a.⁊ per ꝯñs nunc erit ꝯtinue maioris q̄ntitatis ꝙ̄ tunc eſſet:⁊.b.equalis q̄ntitatis ſicut tūc eēt:ꝫ nūc erit minor pportio.b.ad ptem ſuā alterādaꝫ ꝙ̄ tūc eēt:⁊ tunc eēt tāta pportio.b.ad ptem ſuā remiſſam ſicut.a.ad ptem ſuam remiſſam:ꝫ nūc ꝯtinue erit maior pportio.a.ad ptem ſuā alterādā ꝙ̄.b.ad ptem ſuā alterādam:qꝺ fuit pbandū.ꝫ pars alterāda.b.ꝯtinue erit maior

pm corm ꝫ pdictaꝫ

maior ꝙ̄ pars alteranda.a.et rarefactio manebit cōtinue
vniformis ſm ſubm.ſ.ſm ptem.b.ſm ſe totā remiſſam:ꝛ
per ꝯn̄s ꝙ tota pars ſm ſe totā remiſſaꝫ ꝯtinue manebit
vnifor' difformis:quo poſito imaginemur ꝙ totuꝫ in pn°
ſit vnifor' rarū:ſi mō eſſet aliqḋ rarū vniforme qḋ ꝯtinue
ſm ſubm vno gradu rareſiat ſiue intēdaꝛ rarefactio ſiue
nō:ſiue maneat nec intēſa nec remiſſa: quelibet pars iſti⁹
equalē q̄ntitateꝫ acqret ſicut pars ſibi equalis:vt ſatis pꝫ.
Si ğ in pn° ſit vniformiter difforme qualificatū calidita/
te vel frigiditate vel de aliqͣ,ipm ꝯtinue vnifor' difforme
ꝑmanebit.ꝯn̄tia nota eſt intuēti:tūc vltra pars ſm ſe totā
remiſſam iſtius.b.ꝯtinue manebit vniformiter difformis
ꝯſil'r diſpoſita cū ꝑte alterāda.a.ꝛ pars remiſſa.b.ꝯtinue
erit maior ꝑte remiſſa.a.eo ꝙ cōtinue velociori gradu ra/
refiet:ğ ꝯtinue velocius induceꝛ gradus ſūmus in.b.ꝙ̄ in
a.ꝛ tn̄ per certuꝫ tēpus tardius:ꝛ eius ꝓbatio eſt hec. Ca/
piaꝛ inſtās mediū toti⁹ hore:tūc in iſto inſtāti erit vtrūqꝫ
in ſexqualtero maius ꝙ̄ iam eſt.ponaꝛ ğ gr̄a exempli ꝙ in
pn° vtrūqꝫ ſit pedale:ꝛ ſequiꝛ ꝙ per tres q̄rtas pedis erit
tūc gradus ſūmus inductus in.a.ꝛ nō per tātuꝫ in.b.qꝛ ad
pūcta nūc media.a.ꝛ.b.erit tunc gradus ſūmus inductus.
Cum ğ maior quātitas eſt acqſita ſcḋe medietati.b.ꝙ̄ pᵉ:
qꝛ ꝯtinue eodē gradu rareſcit 2ᵃ medietas per totuꝫ ꝛ pᵃ
medietas per ptem:ğ 2ᵃ medietas erit maior pᵃ:ꝛ totū.b.
erit equale.a.ğ pᵃ medietas.b.erit minor ꝙ̄ tres quarte
pedis.ğ ſequiꝛ ꝙ tunc erit gradus ſūmus per plus indu/
ctus in.a.ꝙ̄ in.b.ꝛ per ꝯn̄s in pᵃ medietate velocius in/
duceꝛ in.a.ꝙ̄ in.b. Uel fiat argᵐ de duobus pūctis fluen/
tibus ſup.a.ꝛ.b.cum iſtis gradib⁹ ſūmis:ꝛ ſequiꝛ intētum
ꝙ pūctus talis velocius mouebiꝛ per certuꝫ tēpus ſup.a.
ꝙ̄ ſup.b.ğ ſequiꝛ ꝯcluſio. ¶ Jdeo in iſto caſu bene ſequiꝛ
ꝙ velocius moueꝛ per certū tēpus local'r gradus ſūmus
ſup ſpatiū corñdens.a.ꝙ̄ ſup ſpatiū fixum correſpōdēs
b.tn̄ penes id nō habet velocitas inductionis gradus ſū/
mi attēdi:vt prius argutum eſt. ¶ Itē arguiꝛ iſta ꝯcluſio
ꝙ inductio gradus ſūmi corñdebit gradui remiſſiori ꝙ̄
in.a.que tn̄ inductio correſpōdebit gradui ita intēſo in.b.
ſicut in.a. Sit enim.a.vniformiter difforme vt pꝰs qḋ ra/
refiat ad dupluꝫ vniformiter in iſta hora in qua.a.fiet ſū/
mum vt prius poſitū eſt.ꝛ ſit.b.equale.a.ꝛ ꝯſil'r diſpo/
ſituꝫ cum.a.ꝛ altereꝛ ꝯtinue eodē gradu quo.a.ꝛ rarefiat
etiā ad duplum:tn̄ incipiat tardius ꝛ tardius rarefieri ꝙ̄
a.ꝛ intendaꝛ rarefactio:ita ꝙ iᵃ latitudo rarefactionis ꝑut
ſic acqriꝛ correſpōdeat rarefactioni in.a.quo poſito ſeqꝛ
ꝙ vtraqꝫ inductio intēdeꝛ ad dupluꝫ.ꝛ inductio iſta in.a.
vniformiter:eo ꝙ cōtinue vniformis erit rarefactio:ꝛ in/
ductio in.b.cōtinue velocius ꝛ velocius intēdeꝛ: qꝛ rare/
factio cōtinue erit velocior ꝛ velocior:ergo inductio in.b.
cōtinue erit tardior inductione gradus ſūmi in.a.ꝛ ſequiꝛ
ꝙ gradui remiſſiori corñdebit inductio iſta in.b.ꝙ̄ indu
ctio illius gradus in.a. Arguiꝛ nūc ꝙ cōtinue tardior erit
inductio gradus ſūmi in.b.ꝙ̄ in.a.qꝛ in.a.vniformiter in/
tēdeꝛ ad duplū:ꝛ in.b.velocius ꝛ velocius intēdeꝛ ad du
plū:vt pꝫ.ergo ꝛc. Sil'iter pars alterāda in.b.cōtinue erit
minor tota ꝑte alterāda in.a.totali:qꝛ ſi aliqñ erit ſibi eq̄/
lis ꝛ iaꝫ eſt ei equalis:ꝛ tardius ea incipit rarefieri:ſequiꝛ
ꝙ in illo inſtāti erit velocior rarefactio in.b.ꝙ̄ in.a.ꝛ in.a.
cōtinue manebit rarefactio vniformis: ꝛ in.b.velocior et
velocior:igiꝛ pars alterāda.b.erit maior poſt illud inſtās
ꝑte alterāda.a.ğ ante finem hore erit.b.maius.a.eo ꝙ tā/
ta ꝯtinue erit ꝓportio ipſius.b.totius ad totuꝫ.a.ſicut par
tis alterāde.b.ad ptem alterādaꝫ.a.cōſequēs falſum.ğ id
ex quo ſequiꝛ eſt falſum.ſequiꝛ ğ ꝙ velocius ꝯtinue indu
ceꝛ gradus ſummus in.a.ꝙ̄ in.b. Et ꝓbo ꝙ eideꝫ gradui
corñdebit inductio in.a.ꝛ in.b.qꝛ ſubta iaꝫ ſunt equalia:

2ᵐ corr^m vel ꝯclo

ꝛ in fine etiā erūt equalia:ꝛ vtrūqꝫ cōtinue rarefiet vnifor
miter ſm ſubm:ğ per tātum erit gradus ſūmus in fine in/
ductus in.b.ſicut in.a.ꝯſequētia tenet ſicut de duob⁹ pun/
ctis fluētibus eq̄uelociter cum gradu ſūmo:tūc mot⁹ pun/
ctoꝝ eidē gradui corñdebūt:ꝛ per ꝯn̄s inductiones eidē
gradui corñdebūt. ¶ Itē pūctus motus ſup.b.mouebiꝛ
aliqñ velocius pūcto moto ſup.a.eo ꝙ tardius incipit mo
ueri ꝛ equecito ꝑtrāſibit ſicut alius pūctus.a.ꝛ hoc videꝛ
ſeq̄ vbi extremū intēſius quieſcit:ſed ſi aliud extreᵐ.ſ.re/
miſſius quieſcat:tunc iſte pūctus velocius incipit moueri
ſup.b.ꝙ̄ ſup.a.vt arg' ꝑus:ꝛ per ꝯn̄s videꝛ ſequi ꝙ velo/
cius incipet tūc gradus ſūmus induci in.b.ꝙ̄ in.a.cui⁹ op/
poſitū eſt ꝓbatuꝫ:eo ꝙ pars alterāda.a.ꝯtinue erit maior
ꝑte alterāda.b. ¶ Item ſic.capiaꝛ id inſtās in quo rare/
factio in.b.erit equeuelox cum rarefactione in.a.ꝛ ſequiꝛ
ꝙ ſi ab iſto inſtāti vſqꝫ in finē rarefiant eq̄uelociter ſicut
rarefieret in illo inſtāti ꝙ cōtinue poſt tale inſtās intēdeꝛ
inductio eq̄uelociter in.a.ꝛ in.b.ꝛ etiaꝫ maneret inductio
in.b.equeuelox cuꝫ inductione in.a.ſed iam cōtinue poſt
tale inſtās intēdeꝛ rarefactio in.b.ğ inductio cōtinue erit
velocior ꝙ̄ nūc eēt:ꝛ per ꝯn̄s velocius induceꝛ gradus ſū/
mus in.b.ꝙ̄ in.a.ğ ſequiꝛ cōcluſio. ¶ Pro iſtis dicaꝛ ꝯce/
dēdo ꝙ velocius continue induceꝛ gradus ſūmus in.a.ꝙ̄
in.b.qꝛ pars ſua remiſſa ſemꝑ erit maior ꝑte tota remiſſa
b.vt probaꝛ in ꝯcluſione.ꝛ negaꝛ ꝯn̄tia:ꝛ ᵐ nūc ſunt equa/
lia:ꝛ etiam erūt equalia in fine ꝛ equecito fient ſūma:ğ in/
ductiones gradus ſūmi in iſta duo eideꝫ gradui correſpō
debūt.poſito enim ꝙ eēnt duo equalia que etiaꝫ in fine tē
poris erūt equalia in quo fient ſūma ꝛ vnū ſoluꝫ maioreꝛ
in ꝑte ſūma ꝛ aliud in ꝑte remiſſa:certuꝫ eſt ꝙ multo ve/
locius induceꝛ gradus ſūmus in vnuꝫ ꝙ̄ in aliud:ꝛ ſic nō
valet argᵐ de.a.b.qꝛ nō equales inductiones acqreneꝛ par
tibus remiſſis dum fuerint remiſſe:qꝛ ſicut ꝓbatū eſt ve/
locius ꝯtinue induceꝛ gradus ſūmus in.a.ꝙ̄ in.b.ꝛ ad ar/
gumētum illud de pūctis mouētibus ſup.a.b.cōcediꝛ qḋ
bene ꝓbat ꝙ gradus ſūmus inductus in.b.velocius ali/
quādo mouebiꝛ acquirēdo de ſpatio fixo ꝙ̄ pūctus corre
ſpōdens in.a.vel gradus ſūmus acqret de ſpatio fixo cor/
rñdēte.a.ꝛ ꝙ totus talis mot⁹ gradus ſummi in.b.cadeᶜᶜ
ad totum talē motuꝫ gradus ſūmi inducti in.a.erit equa/
lis penes quē talem motū vt prediciꝛ gradus ſūmi indu/
ctio nō attendiꝛ. ¶ Pro 2ᵒ argumēto negaꝛ illud:ꝙ ſi ab
iſto inſtāti in quo rarefactiōes erūt equales,ſemꝑ rarefa/
ctiōes manerēt equales,gradus ſūmus eq̄uelociter indu/
ceꝛ poſt in illa duo:qꝛ.b.tūc erit minus.a.cōſil'iter cuꝫ eo
diſpoſitū:ğ ſi ſic rarefierēt ad modum loquēdi dictū.ſ.ꝙ
eque ꝓportionabil'r acquirēt de quātitate cum inductio/
nes iſte eque ꝓportionabil'r ſicut quātitates maiorabunꝛ:
ſequereꝛ ꝙ inductiones ille eque ꝓportionabil'r maiora/
renꝛ:ꝛ per ꝯſequēs ſicut vna eſſet maior alia,ita velocius
intēdereꝛ:ꝛ per ꝯſequēs nō equeuelociter tūc intēderenꝛ:
ꝛ ſic nō procediꝛ argᵐ. ¶ Ex ꝑdictis patet ꝙ ſi ſubm vni/
formiter difforme terminatū ad ſūmū alterāduꝫ vno gra
du vniformi quo ad ſubm ꝛ difformiter quo ad tēpus ra/
refiat difformiter intēdereꝛ inductio gradus ſummi:eo ꝙ
eque ꝓportionabil'r intēdeꝛ inductio ſicut quātitas ma/
iorabitur. In caſu tn̄ vbi eſt rarefactio vniformis quo ad
tēpus ꝛ difformis quo ad ſubm vniformiter intēdereꝛ in/
ductio gradus ſummi. Sit enim.a.vt prius:cuius vnifor/
miter rarefiat quelibet pars ſm tēpus ꝛ ſm ſubm:ꝛ ſit.b.
oīno equale ipſi.a.ꝛ cōſil'iter diſpoſituꝫ ſicut ipm.a.cuius
pars remiſſa ꝯtinue eq̄uelociter rarefiat cum ꝑte remiſſa
a.ꝛ ſic in ꝑte ſūma difformiter rarefiat ſm ſubm:ſic tn̄ ꝙ
totuꝫ.b.eq̄uelociter cōtinue maioreꝛ cum toto.a.tūc vni/
formiter inductio gradus ſūmi in.b.intendeꝛ:qꝛ ꝑtes re/

Scḋa regula c.14. in eodem.

miſſe.a.b.ↄtinue erūt equales ⁊ cōſiliter diſpoſite.cum ğ vniformiter intēdet̄ inductio gradus ſūmi in.a.ſequit̄ ꝙ in.b.vniformiter intēdet̄ ⁊c.qḋ fuit ꝓbādū. Stat etiam difformis rarefactio tam ſm ſubm ꝗ̄ ſm tēpus:ita tamē ꝙ gradus ſūmi inductio vniformiter intēdet̄. Sit eniȝ de a.vt prius:⁊ ſit.b.oīno.a.ſilē alteratū eodeȝ gradu quo.a. cuius pars remiſſa equeuelociter ↄtinue rarefiat cuȝ ꝑte remiſſa.a.⁊ ſit velocior rarefactio in ꝑte ſūma.b.ꝗ̄ in parte ſūma.a.⁊ ſit velocior ⁊ velocior rarefactio in ꝑte ſūma.b. ita ꝙ.b.ↄtinue velocius ⁊ velocius acqrat de quantitate. Iſto poſito inductio gradus ſūmi in.b.erit equeuelox ſicut inductio gradus ſūmi in.a.vt ꝓus:⁊ in.a.vniformiter:ğ in b.vniformiter. Et ꝙ.b.rarefiet difformiter ſm ſubm ꝓȝ: qa velocior erit rarefactio in ꝑte ſūma.b.ꝗ̄ in ꝑte remiſſa:qa in ꝑte remiſſa erit equeuelox rarefactio ſicut erit ꝑ a.et in ꝑte ſūma erit.b.velocior rarefactio ꝗ̄ in ꝑte ſūma a.⁊.b.rarefiet difformiter ſm tēpus vt poſitū eſt.ğ ſequit̄

4ᵃ regſe ⁊ 35ᵃ in ordine.

ↄcluſio. ¶ Si vnifor' difforme terminatū ad ſūmuȝ alteratū latitudine vnifor' difformi extremo remiſſiori v̄ſus extre^m remiſſius ſubti vnifor' ſm tēpus ⁊ ſm ſubm rarefiat in īfinitū remittet̄ inductio gradus ſūmi. Sit eniȝ.a. tale:⁊ ſequit̄ ex q̊ vnifor' rarefiet ſm tēpus ꝙ etiam ipſuȝ q̄titateȝ ſolū finitā acqret.ſit ğ.b.equale ſicut erit.a.in fine vnifor' difforme latitudine terminatū ad ſūmū:⁊ alteret̄ eadē latitudine qua.a.extremo remiſſiori v̄ſus extre^m remiſſius ſubti:tūc ad oīa pūcta corridētia.a.b.equecito deueniet gradus ſūmus:vt ꝑȝ.ğ pars remiſſa.a.continue ante finē erit minor ꝑte remiſſa.b.ğ per 8^{am} ⁊ per 13^{am} cōcluſiones velocius ↄtinue inducet̄ gradus ſūmus in.b.ꝗ̄ in.a.⁊ per 17^{am} ↄ̄neȝ in.b.remittet̄ inductio gradus ſūmi ad nō gradū:ğ etiā in.a.qḋ fuit ꝓbādū. Stat tñ per tēpus aliqḋ intēſio inductionis gradus ſūmi:dato.n.inſtāti aliq̄: tūc erit iter pūcta extremalia ꝑtis remiſſe maior latitudo extēſiue ꝗ̄ nunc eſt inter eadē pūcta:eo ꝙ ad extre^m intēſius erit velocior alteratio ꝗ̄ ad extre^m remiſſius:tanta ğ ante illud inſtās pōt eē rarefactio ꝙ tūc erit maior ꝓportio q̄titatis iſtius ꝑtis remiſſe ad quātitatē ꝑhabitaȝ ꝗ̄ tūc erit latitudinis ad latitudinē:ğ per 7^{am} ⁊ 13^{am} ↄ̄nes:tūc velocius inducet̄ gradus ſūmus in.a.ꝗ̄ nūc incipit:eo ꝙ nūc eſt minor ꝓportio q̄titatis.a.ad quātitatē tūc hñdaȝ ꝗ̄ eſt latitudinis extenſe per.a.ad latitudinē in illa ꝑte remiſſa extēdēdam.⁊ talis poſſet eſſe rarefactio i° ꝙ inductio gradus ſūmi ↄtinue intēderet̄ per ↄſileȝ ꝓbationem. ſed tūc nec̄io rarefiet in īfinituȝ:eo ꝙ ſi ſtabit ad quātitateȝ finitā infinite remittet̄:vt argutū eſt.

3 ꝑdcās regulas.

¶ Cōtra ꝑdicta arguit̄ ſic. Datis ↄ̄nibus 3ᵃ ⁊ 4ᵃ:ſequit̄ inductionē aliquā manere ↄtinue vniformem:⁊ tñ remitti ad nō gradū.hoc includit ↄ̄dictionē:vt notuȝ eſt. Et iſtud arguit̄ ſequi. Sit enim.a.vniformiter difforme terminatū ad ſūmuȝ alteratuȝ vno gradu vniformi qui remittat̄ vniformiter ad nō gradū in eodē t̄pe in quo rarefiat ad dupluȝ vniformiter ſm tēpus ⁊ ſm ſubm:tūc per ↄ̄nem 30^{am} ſi non rarefieret inductio remitteret̄ vniformiter ad nō gradū.⁊ per 14^{am} ſi non remitteret̄ alteratio inductio gradus ſūmi vnifor' intēderet̄ ad duplū:ğ i° rarefactio tātuȝ faciet ad intēſioneȝ inductionis gradus ſūmi ſicut alia remiſſio alterationis ad remiſſionē inductiōis gradus ſūmi:⁊ per ↄ̄ns vniformiter inducet̄. Et ꝙ in īfinituȝ remittet̄ arguit̄ ſic. Sit a.tale vt prius:⁊ ſit.b.tāte quātitatis ſicut erit.a.in fine eadem latitudine alteratū ↄtinue equeuelociter cum.a.ſed nō rarefiat.b.tūc velocius cōtinue inducet̄ gradus ſūmus in b.ꝗ̄ in.a.eo ꝙ pars eius alterāda cōtinue erit maior ꝑte alteranda.a.et per 30^{am} ↄ̄nem inductio gradus ſūmi in.b. vniformiter remittet̄ ad nō gradū:ğ in.a.remittet̄ ad nō gradū. ¶ Pro iſto cōcedit̄ 2ᵃ pars:⁊ negat̄ ꝙ illa inductio manebit vniformis:qa illa rarefactio minus cōtinue faciet:⁊ remiſſio alterationis cōtinue plus ⁊ plus. Nā ſint infinita ita ꝙ ſub qualibet quātitate inter quātitatē quaȝ nūc habet.a.⁊ quā habet in fine:ſit aliqḋ vniformiter difforme ↄſilr̄ diſpoſitū cum.a.quoꝝ qḋlibet alteret̄ ↄtinue ſicut.a.⁊ ſequit̄ ꝙ iſta remiſſio alterationis in maiori pluȝ ↄtinue faciet ꝗ̄ in minori:eo ꝙ in qḋlibet iſtoꝝ remittet̄ inductio gradus ſūmi ad nō gradū vniformiter:⁊ tātū cōtinue faciet in.a.ſi nō eſſet rarefactio ſicut in ſubm tūc ſibi equale vt notū eſt.igit̄ iſta remiſſio alterationis plus ⁊ plus ↄtinue ad totius inductionis remiſſioneȝ faciet:et ſic oīno arguet̄ ex alia ꝑte ꝙ iſta rarefactio cōtinue minus ⁊ minus faciet:⁊ ſequit̄ ꝙ tota inductio continue remittet̄.

¶ Pro quo ponit̄ hec ↄcluſio. Si aliqḋ vnifor' difforme terminatū ad ſūmum alteratū vno gradu vniformi vniformiter rarefiat quo ad ſubm cuius alteratio cōti^e eque ꝓportionalr̄ remittat̄ ſicut quātitas maiorabit̄ manente alteratione vniformi quo ad ſubm inductio gradus ſūmi ↄtinue manebit vniformis. 5ᵃ reg'.ſ. 36.in ordine. Sit enim tale.a.ſicut ponit̄ in ↄ̄ne:⁊ arg' ꝙ inductio ↄtinue manebit vniformis ⁊ equeuelox ſicut in ꝑn°:qa ſi nō:ſit id inſtās.b.⁊ ſit.c.pars ꝑtūc remiſſa:⁊ ſit quātitas.a.tūc in.f.ꝓportione maior ꝗ̄ nunc eſt.⁊ ſic ſilr̄ ſit.a.alteratio in.f.ꝓportione minor ꝗ̄ in ꝑn°: ⁊ arguit̄ ꝙ tūc gradus ſūmus equeuelociter inducet̄ in.c.ſicut nūc in.a. Sit enim.d.ↄſilr̄ oīno diſpoſitū ſicut erit tūc c.⁊ etiam equalis quātitatis ſicut tūc erit ipm.c.alteretur tñ eodē gradu quo.a.⁊ arguit̄ ſic.a.eſt vniformiter difforme:ğ ꝓpor' ſicut.c.eſt minus.a.ita habet minorē latitudinem extēſiue ⁊ alterabit̄ i° gradu vniformi:ğ in.c.ↄtinue manebit equalis latitudo extenſiue ſicut nūc eſt in ipſo.c. ↄ̄ntia ꝑȝ per ↄ̄nem 3^{am}. Si ğ.d.eſſet tāte quātitatis ſicut.c. in ꝑn°:tūc equeuelociter inducet̄ gradus ſummus in.d.ſicut in ꝑn° in.a.ↄ̄ntia tenet per ↄ̄nem 5^{am}.eo ꝙ tūc eſſet tāta ꝓportio quātitatis.a.ad quātitatē.d.ſicut latitudinis ad latitudinē:ſed nūc in.f.ꝓportione velocius inducet̄ gradus ſūmus in.d.ꝗ̄ tūc induceret̄:eo ꝙ nūc eſt ꝑ.f.ꝓportione maius ꝗ̄ tūc eſſet:qa eſt in.f.ꝓportione maius ꝗ̄ eſt.c.in ꝑn°:ğ nūc in.f.ꝓportione velocius inducet̄ gradus ſūmuȝ in.d.ſicut in ꝑn° in.a.⁊ in.f.ꝓportione tūc tardius inducet̄ in.c.ꝗ̄ in.d.eo ꝙ.c.⁊.d.erūt tūc ſilia qualitatiue ⁊ quātitatiue:⁊ alteratio in.a.erit in.f.ꝓportione minor alteratione in.d.ğ tūc equeuelociter inducet̄ gradus ſūmus in.c.ſic̄ nūc incipit in.a.⁊ tūc equeuelociter inducet̄ gradus ſūmus in a.ſicut in.c.eo ꝙ.c.tūc erit pars.a.⁊ equeuelociter inducetur in totū ſicut in ꝑtem:ğ tunc equeuelociter inducet̄ in.a.ſicut nūc incipit:⁊ ſic de omni alio inſtāti eſt arguēdū:ergo per.a.gradus ſūmus vniformiter inducet̄:qḋ fuit ꝓbādum.

¶ Cōtra hāc ↄcluſionē arguit̄ tripl'r. Primo ſic. Sit 3 reg^{am}. a.vniformiter difforme pedale alteratū vno certo gradu cuius alteratio remittat̄ vniformiter ad non gradū in eo tēpore in quo fiat ſūmum ⁊ rarefiat in infinitū.ſ.eque ꝓportionabiliter ſicut alteratio remittet̄.quo poſito arguit̄ ſic. Cōtinue ante finē erit ſolū pars finita iſtius.a.ſumma ex quo vniformiter inducet̄ per ↄclōnē:⁊ tunc in fine erit totuȝ ⁊ etiā quelibet eius pars īfinitum modica:eo ꝙ erit vniformis rarefactio quo ad ſubm:ğ ſubito per īfinitum inducet̄ in.a.⁊ per ↄſequēs in īfinituȝ velociter aliquādo inducet̄ in.a.⁊ ſi ſic nō cōtinue vniformiter. ¶ Scḋo arguit̄ ſic. Sint īfinita:quoꝝ ꝑ^m ſit duplum ad.a.⁊ 2^m duplū ad ꝑ^m:⁊ ſic in īfinitum.⁊ ſit qḋlibet illoꝝ vniformiter difforme terminatū ad ſūmum eadē latitudine cum.a.⁊ alterent̄ oīa illa cōtinue equeuelociter cum.a.⁊ nō ſit rarefactio in illis.quo poſito arguit̄ ſic. Infinite velocius ↄtinue inducet̄ per aliqḋ iſtoꝝ gradus ſūmus ⁊ equeuelociter cōtinue inducet̄ in.a.ſicut in aliqḋ illoꝝ qḋ erit ſibi equale.

⁊.a.erit

⁊.a.erit equale cuilibet illoꝝ: exquo ifinitum maiorabitˀ: ḡ
ifinite velociter aliqñ inducetˀ gradus ſūmus in.a. Añs ar
guitˀ ſic. 2^{m} iſtoꝝ ꝯtinue erit duplum ad p^{m} ⁊ 2^{m} ad 3^{m}: ⁊ ſic
in ifinitū: ḡ ifinite velociter cōtinue inducetˀ in aliqđ iſto
rum. Et ꝙ cōtinue eq̄uelociter inducetˀ in.a. ſicut in aliqđ
illoꝝ cum.a. fuerit ſibi equale argˀ ſic. Cum fuerit.a. equa
le alicui illoꝝ tūc erit pars remiſſa.a. iſtius equalis pti re
miſſe alterius: quia ad oīa pūcta corrñdētia coꝝ equecito
deueniet gradus ſūmus. cum ḡ ptes oium illoꝝ remiſſe ⁊
pars remiſſa.a. cōtinue erit vniformiter difformis eadez
latitudine: ſequitˀ ꝙ eq̄uelociter cōtinue inducetˀ gradus
ſūmus in.a. ſicut in aliqđ illoꝝ: cum fuerit ſibi equale. ſeq
tur ḡ ꝙ in.a. ifinite velociter inducetˀ gradus ſūmus: ⁊ per
3° ꝯñs nō ꝯtinue vniforˀ. ¶ Tertio arguitˀ ſic. Ponatˀ de.a.
vt prius: ⁊ capio gradū illuz ſcilz.c. cui corrñdebit tota al
teratio.a. vt depditū: ⁊ ſit.b. oīno ſile ipſi.a. taz qualitatiue
q̄ꝫ quātitatiue qđ maioretˀ in ifinituz eq̄uelociter cum.a. ⁊
alteretˀ.b. ꝯtinue.c. gradu. tūc ſic arguitˀ. Eidez gradui cor
reſpōdebit inductio gradus ſūmi in.b. ſicut in.a. ⁊ in.b. ifi
nito gradui corrñdebit: igitˀ in.a. infinito gradui correſpō
debit. ꝯñtia pꝫ ⁊ maior ſic arguitˀ.a.b. ſunt oīno equalia: ⁊
ꝯtinue erūt equalia ⁊ equecito fiet.a. ſūmum ſicut.b. ergo
eidē gradui corrñdebit inductio gradus ſūmi in.b. ⁊ in.a.
Añs arguitˀ ſic. nam alterationes.a.b. eidem gradui corre
ſpondebūt: ⁊.a. ⁊.b. equalˀr diſtāt a ſūmo: ḡ equecito fiet.a.
ſūmuz ſicut.b. ꝯñtia tenet vt cōſtat. ſequitˀ ḡ ꝙ eidez gra
dui corrñdebit inductio gradus ſūmi in.b. ſicut in.a. Et ꝙ
infinito gradui corrñdebit inductio gradus ſūmi in.b. pꝫ.
nam in omni pte ꝓportionali iſtius tpis cōputādo mino
res v̉ſus finez vniformiter remittetˀ alteratio in.a. ad ſub
dupluz: ⁊ eque ꝓportionabilˀr maiorabitˀ quātitas tam.a.
q̄ꝫ.b. ſicut remittetˀ alteratio.a. ḡ in omni pte ꝓportionali
iſtius tpis maiorabitˀ quātitas.b. ad dupluz: ⁊ in pte omni
erit ꝯſilˀr diſpoſitio: ḡ in duplo maior erit quātitas.b. in 2^{a}
pte ꝓportionali tēporis q̄ꝫ in p^{a}: ⁊ in duplo maior in 3^{a} q̄ꝫ
in 2^{a}: ⁊ ſic in ifinituz: ⁊ eque ꝓportionabilˀr maioratˀ indu
ctio gradus ſūmi in.b. ſicut eius quātitas: vt pꝫ per 34^{am}
ꝯnem: ḡ in duplo velocius inducetˀ gradus ſūmus in.b. in
2ª pte ꝓportionali iſtius tpis q̄ꝫ in pma: ⁊ in duplo velo
cius in 3^{a} q̄ꝫ in 2^{a}: ⁊ ſic in ifinituz: ḡ ifinito gradui correſpō
debit inductio gradus ſūmi in.b. qđ fuit ꝓbāduz. Sequitˀ
igitˀ ꝙ ifinito gradui corrñdebit in.a. ḡ infinite velox erit
aliquādo. ¶ Pro iſto di ꝯcedēdo ꝯcluſionē: ſicut argᵐ fa
tis demōſtrat. ⁊ ad p^{m} argᵐ in oppoſituz negatˀ hec ꝯſequē
tia: cōtinue ante finem erit gradus ſūmus inductus per fi
nitum ſolū ⁊ in fine per ifinitum: ḡ ifinite velociter ſubito
inducetˀ. Sit enim.a. aliqđ vniformiter difforme termina
tum ad ſūmum alteratū vno gradu vniformi quo fiat ſū
mum in hora: ⁊ ponatˀ ꝙ fiat rarefactio ptis ſūme ſolū: ita
tamē ꝙ totum rarefiat in ifinitum: quo poſito totū in fine
erit ifinite ſūmuz per totū: ⁊ tamē equeuelociter ꝓciſe in
ducetˀ gradus ſūmus in ipſaz ſicut nūc eo ꝙ nulla erit ra
refactio in pte remiſſa: ⁊ rarefactio in pte ſumma nihil ad
intēſionē inductionis gradus ſūmi faciet: vt ꝓdictum eſt.
Et ideo non valet argᵐ: ⁊ ſic in argumēto pñcipali. vꝫ. pti
Nota hic quđ ſi aliquid in iſtiuſ rareſiat vniformiſ ſic inductio remittiſ per ti remiſſe ſolū finita quantitas acqriſ. remiſſe.a. q̄ꝫdiu fuerit remiſſa ſolū pedalis quātitas acq
retˀ: ⁊ ifinita quantitas acquiretˀ pti ſūme poſtq̄ꝫ fuerit ſū
ma: ideo non ſequitˀ ꝙ inductio erit ifinita. Antecedēs ar
guitˀ ſic. In hora gr̄a argumēti.a. poſſet fieri ſūmū mediā
te latitudine alterationis nūc habita: que vniformiter re
mittetˀ ad nō gradum: ḡ nūc fiet ſūmuz in duabus horis:
⁊ inductio manebit equeuelox ꝯtinue ſicut nūc incipit eē
vt argutum eſt: ⁊ mediāte iſta inductione ſoluz fiet peda
le ſūmuz in hora: ḡ in illis duabus horis quātitas per quā
inducetˀ anteq̄ꝫ fuerit ſūma erit ſolum bipedalis: ⁊ per to

tum prehabitū ⁊ acgrēdum pti remiſſe dum erit remiſſa
inducetˀ gradus ſūmus per pargura: ⁊ quātitas nūc habi
ta eſt pedalis: ergo ſoluz acquiretˀ pedale pti remiſſe: ipſa
manēte remiſſa: ⁊ ſic nō ſequitˀ ꝙ ifinite velociter induce
tur gradus ſūmus in.a. Aliter tamē cōcedi pōt ꝙ per ifi
nituz inducetˀ gradus ſūmus in.a. q2 gradus ſūmus indu
cetˀ per idem qđ erit ifinituz in.a. exquo nō ſequitˀ ꝙ gra
dus ſūmus ifinite velociter inducetˀ in.a. q2 id maiorabitˀ
in ifinitum poſtq̄ꝫ erit ſūmuz. ¶ Ad 2^{m} argᵐ dicitˀ admit
tēdo caſum. ⁊ negatˀ ꝯſequētia: ifinite velociter inducetur
gradus ſūmus ꝯtinue in aliqđ iſtoꝝ: ⁊ equeuelociter in.a.
ſicut in aliqđ illoꝝ cum illud fuerit equale.a. ḡ ifinite ve
lociter inducetˀ ⁊c. q2 in quolibet iſtoꝝ remittetˀ inductio
ad nō graduz vt patet: eo ꝙ alteratio in q̄libet iſtoꝝ vni
formiter remittetˀ ad nō graduz deductis alijs motibus:
⁊ in.a. vt argutuz eſt manebit vniformis: ḡ inductio in.a.
erit inductioni in qđlibet iſtoꝝ equalis aliquādo: ⁊ ſic nō
valet argᵐ. Exēpluz ad hoc. ſit.a. vnum pedale: ⁊ ſint ifini
ta: quoꝝ p^{m} ſit duplum ad.a. ⁊ 2^{m} dupluz ad p^{m}: ⁊ ſic in ifi
nitum: ⁊ diminuatˀ qđlibet iſtoꝝ ifinitoꝝ ad nō quātuz in
iſta hora vniformiter manēte ſemꝑ.a. ⁊ diminuatur 2^{m} in
duplo velocius q̄ꝫ pmū: ita ꝙ ſemꝑ ſit 2^{m} in duplo maius
pmo: ⁊ ſic in ifinitum: tūc ifinite magnum cōtinue erit ali
qđ illoꝝ: ⁊.a. cuilibet iſtoꝝ eſt equale in illa hora: eo ꝙ qđ
libet iſtoꝝ diminuetˀ in tota hora ad nō gradum quātita
tis: ⁊ tamē nō ſequitˀ ꝙ in ifinitum maiorabitˀ quātitas.a.
pedalis: imo illa ſtabit ꝯtinue ſub pedali quātitate: ita in
telligēduz eſt de inductiōe gradus in iſta ifinita: q2 lꝫ ifi
nita cōtinue erit aliquādo inductio: tamē in quodlibet re
mittetˀ inductio ad nō gradū: q2 iſta inductio manēs vni
formis in.a. erit in iſto tēpore equalis cuilibet iſtoꝝ: ⁊ ſic
nō ꝓcedit argᵐ. ¶ Ad 3^{m} argᵐ negatˀ hec ꝯſequētia: finito
gradui correſpōdebit inductio gradus ſūmi in.b. ⁊ altera
tiones.a.b. eidē gradui correſpōdebūt: ⁊ quātitates illoꝝ
ſunt ⁊ ſemꝑ erūt equales: ḡ infinito gradui correſpōdebit
in.a. ⁊c. q2 lꝫ tota quātitas.a. ſemꝑ erit equalis toti quāti
tati.b. ifinite minor aliqñ erit pars remiſſa.a. pte remiſſa
b. ⁊ ſic maior quātitas acgretˀ pti remiſſe.b. q̄ꝫ pti remiſſe
a. ⁊ ſic nō valet argᵐ. ¶ Añs arguitˀ ſic. Per inductionez *Nota pulchras ſpeculatiões.*
gradus ſūmi in.a. ſoluz inducetˀ per bipedale ſequeſtrata
pte acgſita parti ſūme ipſa exiſtēte ſūma: vt argutuz eſt. ḡ
aliquādo per aliquātuz diſtabit gradus ſūmus ab extre
mo remiſſiori.a. ⁊ aliquādo per induplo minus: et ſic de
inceps. ꝯſequētia nota eſt: ⁊ gradus ſūmus in.b. per peda
le cōtinue diſtabit ab extremo remiſſiori eius. Naz pars
remiſſa.b. ſicut totum.a. in omni pte ꝓportionali maiora
bitˀ ad duplū. cum ḡ nūc totū ſit pedale: ſequitˀ ꝙ in inſtā
ti medio: ⁊ in fine pme ptis ꝓportionalis erit totum.b. bi
pedale: ad cuius pūctuz mediū tūc deueniet gradus ſum
mus: eo ꝙ alteratio cōtinue manebit vniformis: ergo tūc
gradus ſūmus diſtabit ab extremo remiſſiori per peda
le: ⁊ ſi ſic cum in ſc̄da pte ꝓportionali maiorabitˀ pars re
miſſa ad duplum: ad cuius pūctum mediuz tūc deueniet
gradus ſūmus: patet ꝙ in fine iſtius tertie ptis ꝓportio
nalis diſtabit gradus ſūmus ab extremo per pedale: ⁊ ſic
de omni parte poſteriori eſt arguēdum: eo ꝙ in omni tali
pte maiorabitˀ quelibet eius pars ad dupluz: in cuius pñ
cipio erit pars eius remiſſa pedalis: et in eius fine erit ad
pūctum mediuz iſtius ptis gradus ſūmus. ſequitˀ ergo ꝙ
ifinituz maior erit aliquādo quelibet pars remiſſa.b. par
te remiſſa.a. ¶ Item pōt argui ꝙ in ifinitum minorabitˀ
pars remiſſa.a. nam ſit gradus alterationis quo nūc alte
rabitˀ vt 4^{or}: ⁊ ſequitˀ ꝙ.b. alterabitˀ gradu vt duo ꝯtinue:
tūc ſic arguitˀ. in prima parte ꝓportionali remittetˀ altera
tio.a. vniformiter vſq3 ad duo: ḡ correſpōdebit gradui vt

tria.cum ḡ per medietatē.b.tūc erit gradus ſūmus:ſequit̄
ꝙ per tres 4ᵃˢ.a.tūc erit gradus ſūmus:ꝛ totuꝫ.a.tūc erit
bipedale:ḡ gradus ſūmus tūc diſtabit ab extremo remiſ-
ſiori.a.per ſemipedale.Ex quo ſic arguit̄:in ſcḋa medieta-
te tēporis fiet id ſemipedale ſūmum:ꝛ tota eius alteratio
tūc correſpondebit gradui vt vnum:eo ꝙ remittet̄ vniformi-
ter a duobus vſqꝫ ad nō graduꝫ:ꝛ ſi ſic mediāte gradu vt
vnū in 2ᵃ pte ꝓportionali iſtius tpis deueniet gradus ſū-
mus ad pūctum mediū iſtius ſemipedalis:ꝛ in iſta 2ᵃ pte
ꝓportionali remittetur alteratio.a.vniformiter a duobꝰ
vſqꝫ ad vnuꝫ:ḡ correſpondebit gradui medio iter duo ꝛ vnuꝫ
qui gradus eſt ſexqualterus ad gradū vt vnuꝫ:ḡ in inſtāti
medio erūt tres quarte iſtius ſemipedalis ſūme qḋ ſemi-
pedale in fine iſtius ſcḋe ptis ꝓportionalis fiet pedale:ḡ
tunc gradus ſūmus diſtabit ab extremo iſtius ptis totius
ſm ſe totā remiſſe per 4ᵃᵐ pedalis.ꝛ ſic arguēduꝫ eſt de
omni alia pte ꝓportionali.ſ.ꝙ in fine iſtius ptis erit tota
pars remiſſa in duplo minor ꝙ̄ in pn̄ᵒ eiuſdem:eo ꝙ me-
diāte gradu quo alterabit̄ in pn̄ᵒ alicuius ptis ꝓportiona-
lis fiet ipſa pars ſūma in fine eiuſdem:qa mediāte gradu
ſubduplo fieret ſūma in toto tpe ſequēti:ꝛ in omni parte
ꝓportionali correſpondebit alteratio gradui in ſexqtertio re-
miſſiori ꝙ̄ in pn̄ᵒ eiuſdeꝫ:ex quo vniformiter remittet̄ ad
ſubduplū:ḡ in omni parte ꝓportionali fient tres quarte
iſtius ptis in pncipio remiſſe ſūme:ꝛ in ſcḋa pte maiora-
bit̄ pars remiſſa ad duplū:ḡ in fine cuiuſlibet ptis ꝓpor-
tionalis diſtabit gradus ſummus plus ꝙ̄ in duplo minus
ab extremo remiſſiori ꝙ̄ in pncipio eiuſdeꝫ:ꝛ gradus ſū-
mus in.b.cōtinue diſtabit ab extremo remiſſiori per pe-
dale:ḡ īfinite maior erit aliquādo pars remiſſa.b.ꝙ̄ parſ
remiſſa.a.ꝛ per cōſequēs īfinite velocius acqret de quāti-
tate:eo ꝙ per oēs ptes equales equalr̄ acqret de quātita-
te:vt ſic pōt argui. In tota pte remiſſa tam.a.ꝙ̄.b.mane-
bit latitudo equalis extēſiue ſicut in pn̄ᵒ:vt pꝫ per 3ᵃᵐ re-
gulaꝫ:eo ꝙ vtrūqꝫ alterabit̄ gradu vniformi.cum ḡ que-
libet pars.a.equaleꝫ habeat latitudinē ſicut pars equalis
b.eo ꝙ ſunt vniformiter difformes eadeꝫ latituᵈⁱⁿᵉ ꝛ equa-
liter ita cōſiſtr̄ rareſcient:ḡ extremuꝫ remiſſius ptis remiſ-
ſe.a.cōtinue per tātum diſtabit a ſūmo ſicut extremū re-
miſſius ptis equalis.b.ſꝫ extremū remiſſius.a.īfinite erit
ꝓpinquius gradui ſūmo ꝙ̄ extremuꝫ remiſſius.b.erit ꝓ-
tūc/patet:eo ꝙ ad extrema remiſſa.a.b.in eodē inſtāti de-
ueniet gradus ſūmus.ſ.in fine tēporis:ꝛ in īfinituꝫ remiſ-
ſior aliquādo erit alteratio ad extremū remiſſius.a.ꝙ̄ ad
extremuꝫ remiſſius.b.eo ꝙ in.a.remittet̄ alteratio ad nō
gradū manēte alteratione vniformi in.b.ergo īfinite mi-
nor erit aliquādo pars remiſſa.a.pte remiſſa.b.qḋ fuit ꝓ-
bāduꝫ. Et ideo nō ſequit̄ ꝙ eidem gradui correſpondebit in-
ductio gradus ſūmi in.a.ꝛ in.b.eo ꝙ ptibus eoꝝ remiſſis
dum remiſſe fuerint quātitates equales nullatenus acqrē-
6ᵃ regula 37ᵃ in ordine. tur.¶ Si aliqḋ ſubm̄ vniformiter difforme terminatum
ad ſūmuꝫ alteratū vno gradu vniformi condēſet̄ vnifor-
miter quo ad ſubm̄:ita ꝙ quelibet pars equalis equaliter
deꝑdat de ꝗ̄titate ꝛ eque ꝓporr̄ maioret̄ alteratio manēs
vniformis quo ad ſubm̄ ſicut minorat̄ quātitas inductio
gradus ſūmi cōtinue manebit vniformis:qa ſi nō:ſit.a.ta-
le:vt ponit aīs iſtius ↄditionalis:ꝛ arguit̄ ꝙ ↄtinue eque-
velociter inducet̄ gradus ſūmus ſicut nūc incipit induci:
qa ſi nō:ſit.b.tale inſtās in quo etiā ſit.c.pars ptūc remiſ-
ſa:que etiā tūc ſit in.f.ꝓportione minoris ꝗ̄titatis ꝙ̄ nūc
eſt:ꝛ arguit̄ ꝙ in.c.tunc equevelociter inducet̄ gradus ſū-
mus ſicut nūc incipit in.a.Sit enim.d.tāte quātitatis ꝑci-
ſe ſicut nūc eſt.c.vniformiter difforme terminatū ad ſum
mū equali latitudine:ſicut in.b.inſtāti erit.c.vniforr̄ diffor
me:ꝛ ſit nūc grā argumēti.b.inſtās:ꝛ tūc ſic arguit̄. Eque-
velociter inducet̄ gradus ſūmus in.d.ſicut in pn̄ᵒ inducē-
bat̄ in.a.qa ponat̄ ꝙ eodē gradu alteret̄.d.quo gradu al-
rabit̄.a.in pn̄ᵒ:qa ſicut.d.eſt minus.a.quātitatiue ꝛ mino-
ri latitudine extēſiue eſt vniformiter difforme alterationis
terminatū ad ſūmū:ḡ mediāte equali latitudine equeue-
lociter inducet̄ gradus ſūmus in.d.ſicut in.a.ↄñia tenet
per 6ᵃᵐ ſuppōnē cum ſuo aīte. Nam.c.in pn̄ᵒ habuit tātaꝫ
latitudinē ſicut nūc habet:ꝛ nūc habet tātaꝫ.c.ſicut.d.igit̄
d.nūc habet tātā ſicut in pn̄ᵒ habuit.c.ꝛ ſicut.c.fuit minus
a.ita habuit minorē latitudinē:ꝛ.d.eſt tātuꝫ ſicut in pnci-
pio fuit.c.ḡ habet tātam latitudinē minorē ꝙ̄ habuit.a.in
pn̄ᵒ in qua ꝓportione fuit minus.a.Sequit̄ ḡ ꝙ equeuelo-
citer inducit̄ gradus ſūmus in.d.ſicut in pn̄ᵒ in.a.ꝛ eꝗ̄uelo-
citer in.d.ſicut in.c.qḋ ſic arguit̄.Si.c.foret alteratū eodē
gradu quo.d.in.f.ꝓportione tardius inducet̄ gradus ſū-
mus in.c.ꝙ̄ in.d.eo ꝙ ſunt vniformiter difformia eadē la-
titudine terminata:ꝛ.c.eſt in.f.ꝓportione minus.d.ſꝫ nūc
in.f.ꝓportione velocius inducit̄ in.c.ꝙ̄ tūc induceret̄:er-
go nūc eꝗ̄uelociter ſicut in.d.ꝛ minor pꝫ:qa alteratio.c.eſt
in.f.ꝓporr̄ maior ꝙ̄ tūc eſſet.pꝫ ḡ ꝙ in.b.inſtāti eꝗ̄ueloci-
ter inducet̄ gradus ſūmus in.c.ſicut in pn̄ᵒ incipit induci
in.a.ꝛ eꝗ̄uelociter tunc inducet̄ in.a.ſicut in.c.eo ꝙ tunc.c.
erit pars.a.ꝛ eꝗ̄uelociter inducit̄ gradus ſūmus in totū ſi-
cut in ptes eius:ſequit̄ ḡ ꝙ in.a.vniformiter ↄtinue indu-
cet̄ gradus ſūmus.Sicut.n.arguuꝫ eſt de.b.inſtāti:ita de
omni alio inſtāti eſt arguēdū.¶ Cōtra iſtud ſic arguitur. 3 regᵐ
Ponat̄ ꝙ.a.vniforr̄ difforme terminatū ad ſūmuꝫ altera-
tuꝫ vno gradu vniformi:ꝛ cōdēſet̄ ad nō quātum vnifor-
miter quo ad tēpus ꝛ quo ad ſubm̄:ita ꝙ in omni pte ꝓ-
portionali iſtius hore diminuat̄ vniforr̄ ad ſubdupluꝫ:ꝛ
intēdat̄ alteratio equeꝓporr̄ ſicut minorat̄.ꝗ̄titas:tunc
ꝓbo ꝙ nō vniforr̄ inducet̄ gradus ſūmus:qa īfinite velo-
citer inducet̄:eo ꝙ mediāte aliq̄ alteratione aliqualr̄ ve-
lociter inducet̄:ꝛ mediāte alia in duplo velocius:ꝛ ſic de-
inceps.cum ḡ īfinite velociter alterabit̄ īfinite velociter
inducet̄ gradus ſūmus.¶ Ideo negat̄ ↄñia:qa lꝫ īfinite
velox erit alteratio/īfinite modica erit pars alterāda an-
te finem.ꝛ ideo nō ſequit̄ ꝙ īfinite velociter inducet̄ gra-
dus ſūmus ante fineꝫ.ideo ꝛc.¶ Iſta rñſio nihil facit:qa
capio latitudinē quam acqret in pma pte ꝓportionali ho-
re:ꝛ ſit grā argumēti vt duo:tūc ſubito acqret tātaꝫ latitu-
dineꝫ ꝛ nō quādo pars per minus diſtabit a ſūmo ꝙ̄ per
duo:qa tūc intēdet̄ vltra ſūmum:ḡ in pte diſtāte a ſūmo
per 2ᵒ ſubito acqret̄.Et capio ḡ id inſtās in quo extremū
a.diſtabit a ſūmo per duo:tūc capiat̄ pars ptūc ſm ſe to-
tam remiſſa:tūc ſi ad extremū ſubito deueniet gradus ſū-
mus:ꝛ ad oēm pūctum itrinſecū equecito ſicut ad extreᵐ
remiſſius vel citius:eo ꝙ alteratio vndiqꝫ erit equalis:ḡ
per totā illaꝫ ptem.a.tūc ſubito inducet̄ gradus ſūmus:ꝛ
per ↄñs īfinite velociter.Maior pˢ ↄñtie pꝫ.vꝫ.ꝙ ſubito
acqret duo:qa alteratio in 2ᵃ pte ꝓportionali tpis erit in
duplo velocior ꝙ̄ in pma:ꝛ ſic in īfinitū.ergo in omni pte
ꝓporˡⁱ tātaꝫ latitudinē acqret ſicut in pᵃ:ꝛ in īfinitū modi-
ca eſt aliqua pars ꝓporˡⁱˢ:ḡ in infinito modico tpe acqret
duo:ꝛ ſi ſic:ḡ ſubito.Aīs pꝫ:quia quātitas.a.erit in duplo
minor in 2ᵃ pte ꝓportionali ꝙ̄ in prima:ꝛ ſic deinceps vt
ponit caſus.ꝛ ſicut ꝗ̄titas erit minor:ita alteratio erit ve-
locior:ḡ alteratio.a.erit in duplo velocior in 2ᵃ pte ꝓpor-
tionali iſtius tēporis ꝙ̄ in pᵃ:ꝛ ſic in īfinitum:qḋ fuit ꝓbā-
dū.ḡ ↄcluſio nō eſt vera.¶ Ex caſu iſto tñ ſequit̄ ꝙ extre-
mū remiſſius.a.per īfinitū diſtat a ſūmo:qa acqret latitu-
dineꝫ īfinitā ꝛ nullā niſi illam per quā diſtat a ſūmo.ḡ ꝛc.
Maior pꝫ:qa in omni pte ꝓporˡⁱ tātam latitudinē acqret
ſicut in pᵃ.¶ Pro pᵃ ↄcedit̄ caſus.ꝛ hoc qñcūqꝫ itēdet̄ al-
teratio in.a.ſed.a.fiet ſūmuꝫ antēꝙ̄ diminuet̄ ad nō quā-
tum:qꝛ

tum:qꝛ aliter ſequeret̄ ꝙ per infinitā latitudinē diſtaret a ſummo vt arguitū eſt:eo ꝙ in omni parte ꝑportionali acq̄ret tantā latitudinē ſicut in ꝑma:ꝛ ideo nunq̄ intendet̄ alteratio in infinitū:qꝛ nō per oēm partē ꝑportionalez diu' boꝛe intēdet̄. Naꝫ alteratio in ꝑma parte ꝑportionali aliqui gradui corrn̄debit mediante qua pōt aliqua latitudo acquiri in illa pte:ideo ſi extremū remiſſius diſtet a ſūmo precise per tātū ſicut pōt acq̄ri mediāte illa alteratione:in ꝑma parte ꝑportionali fiet ſummū:ꝛ ſi per duplaꝫ latitudineꝫ diſtet a ſummo:in ſcd̄a parte ꝑportionali fiet ſūmū ꝛ ſic deinceps.cū ergo per finitaꝫ diſtet a ſummo in partib' ꝑportionalib' finitis fiet ſummū:ꝛ ſic nō ſequit̄ ꝙ īfinite velociter alterabit̄:qꝛ non alterabit̄ quouſqꝫ quātitas diminuet̄ ad nō q̄ntū.ſed ſi arguit̄ eque ꝑportionabilr̄ cōtinue intēdet̄ alteratio ſicut minoꝛat̄ quātitas ꝓcedit̄:qn̄.ſ. manebit alteratio:ſed hoc nō erit veruꝫ in fine.❡ Conſilr̄ ſoluit̄ ſcd̄m argumētum qn̄ arguit̄ ꝙ ſubito acq̄ret binariuꝫ:qꝛ in omni parte ꝑportionali acquiret binariuꝫ:quia illud eſt falſuꝫ:eo ꝙ infinite ſunt partes ꝑpoꝛ^{les} in quarum nulla intendet̄:ꝛ ſic ſoluit̄ argumētū:ſed ſtaret ꝙ diminutio alia iſtius vniformis quo ad ſubiectū vna cuꝫ eque ꝑportionali intēſione alterationis:ita ꝙ fiat ſummū in eodē tp̄e precise in quo erit diminutū ad nō q̄ntū: qꝛ vt ꝓbatuꝫ eſt ꝯclōne 25^{a}:ita pōt latitudo alterationis īfinita acq̄ri ꝙ corrn̄deat gradui finito.ponat̄ ꝗ ꝙ alteratio in.a.manens vniformis intēdat̄ in infi^{m}: ita ꝙ corrn̄deat gradui finito: ꝛ fiat ſummū in illo tp̄e in quo fiet hꝫ intenſio ꝛ diminuat̄ eque ꝑpoꝛ^{r} ſicut intendet̄ alteratio:ꝛ ſequit̄ exquo alteratio intēdet̄ in infi^{m} ꝙ totum diminuet̄ ad nō q̄ntū: ꝛ in illo

7^{a} regula 38^{a} in ordine.

eodeꝫ tp̄e fiet ſummū qd̄ fuit ꝓbādū.❡ Si aliqd̄ vniformiter difforme terminatuꝫ ad ſummū latitudine vniforr̄ difformi alteratuꝫ extremo remiſſiori alterationis verſus extremū remiſſius ſubiecti rareſiat vniforr̄ quo ad ſubiectuꝫ ꝛ eque ꝑpoꝛ^{r} remittat̄ alteratio per totū: nūc per totā partē ſm̄ ſe totā remiſſaꝫ inductio gradus ſūmi remittet̄. Sit de.a.vt ponit̄ in antecedente iſtius cōditionalis ꝛ arguit̄ ſic.Continue poſt hoc plus tardius inducetur gradus ſumm' q̄ꝫ nūc incipit iduci:qꝛ ſi nō:ſit.b. aliqd̄ inſtās poſt hoc qd̄cūqꝫ volueris:ꝛ ſit.c.pars ſm̄ ſe totā remiſſa terminata ad ſummū:ꝛ ſit nūc tale inſtans gr̄a argumētiː ꝛ ſit.d. oīno ſilr̄ ꝛ taꝫ q̄litatiue q̄ꝫ quātitatiue ꝛ altereſ eadeꝫ latitudine alterationis qua in ꝑn^{o} alterabat̄.a. ꝛ ſit.f.ꝑportio quātitatis.a.ad quātitatē.a.pꝛehabitā:ꝛ ſimilr̄ alterationis ad alterationē : quo poſito exquo cōtinue.c.alterabit̄ latitudine vniforr̄ difformi extremo īteſiori verſus extremū inteſius ſubiecti:ſequit̄ ꝙ latitudo in.c. maioꝛabit̄ extēſiue:eo ꝙ velocius intendet̄ extremū intēſius q̄ꝫ extremū remiſſius:ſequit̄ ꝙ.d.eſt vniforr̄ difforme maioꝛi latitudine q̄ꝫ fuit.c.in ꝑncipio:ergo ſi.d.eſſet tante quātitatis ꝑciſe ſicut in ꝑncipio fuit.c.ſequit̄ ꝙ tardius nūc iducet̄ gradus ſumm' in.d.q̄ꝫ in ꝑncipio inducebat̄ in.a. ꝯn̄a per ſextā ꝛ 13^{am} ꝯclōnes ſatis pꝫ.Sed in.f.ꝑportiōe velocius iducet̄ gradus ſumm' in.d.q̄ꝫ tunc induceret̄:eo ꝙ eſt in.f.ꝑportione maius q̄ꝫ nūc eſſet:ꝗ nūc nō in.f.ꝑportione velocius inducit̄ gradus ſumm' in.d.q̄ꝫ in ꝑncipio inducebat̄ in.a. ꝯn̄a ſatis pꝫ:cū ergo in.f.ꝑportiōe velocius inducet̄ ꝗdus ſumm' in.d.q̄ꝫ in.c.eo ꝙ ſunt oīno ſīlia:ꝛ alteratio in.d.eſt in.f.ꝑportiōe maioꝛ alteratiōe.c.ſequit̄ ꝙ in.c. nūc tardi' inducet̄ gradus ſumm' q̄ꝫ in ꝑn^{o} in.a.ꝛ equeuelociter pꝛeciſe nūc inducit̄ in.a.ſicut in.c.qꝛ equetarde in totū ſicut in pteꝫ:ergo nūc tardius inducit̄ in.a.q̄ꝫ in ꝑn^{o}: ꝛ ita de omni inſtanti ꝛ pte in iſto ſm̄ ſe totaꝫ remiſſa ad ſummū terminata eſt arguēduꝫ:ꝛ ſimilr̄ pōt argui ꝙ ſemꝑ in parte poſteriori tardius inducet̄ q̄ꝫ prius: ſequit̄ ergo cōcluſio:ſed cōtra iſtaꝫ pōt argui ſicut contra penultimaꝫ eſt arguꝫ.

❡ Si aliqd̄ vniformiter difforme terminatū ad ſummū alteratum latitudine vniforr̄ difformi extremo remiſſiori verſus extremuꝫ remiſſius ſubiecti cōdenſet̄ vniforr̄ quo ad ſubiectū ꝛ eque ꝑpoꝛ^{r} intēdat̄ alteratio ſicut quātitas minoꝛat̄ manente alteratiōe vniforr̄ difformi vniforr̄ per partē remiſſaꝫ extēſa inductio gradus ſūmi ꝯn^{e} remittet̄. 8^{a} reg^{a} ſed 39. in ordine.
Sit eniꝫ.a.vt ponit̄ in an̄te iſtius cōditionalis ꝛ arguit̄ ꝙ cōtinue poſt hoc tardi' inducet̄ in.a.q̄ꝫ nūc incipit induci: qꝛ ſi nō:ſit.b.inſtās tale in quo nō.Et ꝙ ſic arguit̄ : qꝛ ſit.c. ps ꝑtunc remiſſa terminata ad ſummū:ꝛ ſeq̄t̄ vt prius ꝙ latitudo iſta quātitatis in.c.maioꝛabit̄ extēſiue : ꝛ ſit nunc gr̄a argumēti illud.b.inſtās:ꝛ ſit.a.ꝛ.c.in.f.ꝑportiōe minoris quātitatis q̄ꝫ in ꝑn^{o} ꝛ alteratio in.f.ꝑportione maioꝛ q̄ꝫ in ꝑn^{o}:ꝛ ſit.d.vniforr̄ difforme latitudine eadeꝫ qua.c.terminatū ad ſummū:ꝛ ꝯſilr̄ alteratū cuꝫ.c.ſit tn̄.d. tāte quātitatis ſicut fuit.c.in ꝑncipio: quo poſito latitudo in.d.erit maioꝛ q̄ꝫ fuerit in.c.in principio : ꝛ ſicut fuit.c.minus.a.ita habuit minorē latitudinē q̄ꝫ.a.eo ꝙ fuit vniforr̄ difforme: ergo in principio fuit maioꝛ ꝑportio quātitatis.a. ad quātitatē quā nūc hꝫ.d.q̄ꝫ fuerit latitudinis quā tūc habuit.a. ad latitudinē quā hꝫ.d.ꝯn̄a pꝫ ꝛ maioꝛ ſimilr̄ per ꝑargutaꝫ ꝗ ſi.d.eadeꝫ latitudine altereſ qua.a.in ꝑncipio tardius inducet̄ gradus ſumm' in.d.q̄ꝫ in ꝑncipio in.a. ꝯn̄a iuxta ſextā ꝛ 13^{am} ꝯclōnes ſatis eſt manifeſta.Sed nunc in.f.ꝑportiōe veloci' inducit̄ gradus ſumm' in.d. q̄ꝫ tunc:eo ꝙ in.f.ꝑportione eſt alteratio.d.velocioꝛ q̄ꝫ tunc eſſet : ꝗ tūc nō in.f.ꝑportione velocius gradus ſumm' intendet̄ in.d. q̄ꝫ in ꝑncipio in.a.ꝛ in.f.ꝑportione velocius inducit̄ in.d. q̄ꝫ in.c.ergo tardius nūc iducit̄ in.c.q̄ꝫ in ꝑncipio in.a. ꝯn̄a pꝫ de ſe ꝛ minoꝛ pꝫ per 8^{am} ꝛ 13^{am} ꝯclōnes:qꝛ.d.eſt in.f.ꝑportione maius.c.cōſilr̄ cū eo diſpoſitū : ꝛ ꝯſimilr̄ cum eo alteratū:ꝛ ſic de omni alio inſtāti eſt arguēduꝫ ꝙ.ſ.in iſto inſtanti tardius inducet̄ gradus ſumm' in partem ꝑtunc remiſſaꝫ q̄ꝫ in ꝑncipio in.a.ꝛ ꝙ ſemꝑ in inſtanti poſteriori tardius inducetur q̄ꝫ in prioꝛi:ſequit̄ ergo cōcluſio.❡ Si aliqd̄ vniformiter difforme terminatū ad ſummū alteratū latitudine vniformiter difformi extremo remiſſiori alterationis verſus extremū intēſius ſubiecti rareſiat vniformiter quo ad ſubiectuꝫ ꝛ eque ꝑpoꝛ^{r} remittatur alteratio per totū vniformiter per partē remiſſaꝫ ad ſummū terminataꝫ extenſa velocius ꝛ veloci' inducet̄ gradus ſumm'. 9^{a} regula 40. tamē in ordine.
Sit eniꝫ iſtud.a.vt ponit̄ in antecedente iſtius cōditionalis ꝛ arguit̄ ꝙ ꝯtinue poſt hoc velocius inducetur gradus ſumm' in.a.q̄ꝫ nūc incipit:qꝛ ſi nō:ſit.b.illud inſtās in quo nō:ꝛ ſit pars ꝑtunc terminata ad ſummū vt prius ꝛ labatur tēpus:ita ꝙ nūc ſit.b.inſtās gratia argumēti: ꝛ ſit quātitas.a.in.f.ꝑportiōe maioꝛ q̄ꝫ in pꝛicipio: ꝛ ſit.d.oīo qualitatiue ꝛ quātitatiue ſimile.c.alteratū eadē latitudine alterationis qua.a.in principio.Et arguit̄ ſic. Latitudo in.c. d.eſt minoꝛ q̄ꝫ in ꝑncipio fuit in.c. exquo velocius fuit alteratio ad extremū remiſſius q̄ꝫ ad extremū intēſius:ergo ſi.d.eſſet preciſe tante quātitatis ſicut fuit.c.in ꝑncipio velocius induceret̄ gradus ſumm' in.d. q̄ꝫ in principio in.a. ꝯn̄a pꝫ per ꝯclōnes 7^{am} ꝛ 13^{am}:qꝛ tunc eſſet maioꝛ ꝑportio latitudinis ad latitudinem q̄ꝫ quātitatis ad quātitatem vt notuꝫ eſt.ſed in.f.ꝑportione velocius nūc inducit̄ gradus ſumm' in.d.q̄ꝫ tunc:qꝛ ſua quātitate velocius in.f. proportione nūc inducit̄ gradus ſummus in.d.q̄ꝫ in principio inducebatur in.a.ꝛ in.f.proportiōe velocius nunc inducitur gradus ſummus in.d.q̄ꝫ in.c. eo ꝙ alteratur latitudine in f.proportione maioꝛi : ergo nunc velocius inducitur gradus ſummus in.c.q̄ꝫ in principio in.a.ꝛ ita de oī alio inſtāti eſt arguenduꝫ ꝙ.ſ.in illo velocius inducit̄ gradus ſumm' in parte terminata ad ſummū q̄ꝫ nunc incipit in totum.a.ꝛ ſilr̄ ꝙ velocius inducitur in inſtāti poſteriori q̄ꝫ in prioꝛi.

Decia regula & eſt in ordine 41.

❡ Si aliqđ vnifor' terminatū ad ſummū alteratū latitudine vniformiter difformi extremo remiſſiori verſus extremū intēſius ſubiecti cōdenſeť vnifor' quo ad ſubiectū & eque ꝓpor' intendať alteratio ſicut quātitas minoratur cōtinue inductio gradus ſummi intēdeť: ponať ergo de.a. vt poniť in antecedente iſtius conditionalis & arguitur vt prius ꝙ velocius cōtinue induceť in.a. ꝙ̄ nunc incipit: qꝛ ſi nō: ſit iď inſtans.b. & ſit nunc gratia argumēti: & ſit.c. pars remiſſa terminata ad ſummū: & ſit.d. tante quātitatis ſicut fuit.c. in principio eadem latitudine vniformiter difformi qua nūc eſt.c. & eadez latitudine alteratū cuiꝫ.c. quo poſito minor eſt ꝓportio quātitatis quā habuit.a. in principio ad quātitatē.d. ꝙ̄ fuit latitudinis quā habuit.a. ad latitudinē quā habet.d. eo ꝙ latitudo.d.c. eſt mior ꝙ̄ fuit in pn̄cipio in.c. ergo per 7am & 13am ɔcluſiones ſi altereť.d. eadez latitudine qua.a. in pn̄cipio velocius induceť gradus ſumm9 in.d. ꝙ̄ in principio inducebať in.a. ſed in.f. ꝓportiōe nūc velocius induceť gradus ſummus in.d. ꝙ̄ tunc. Sit enim alteratio.a. in.f. ꝓportione minor & quātitas in.f. ꝓportiōe minor ꝙ̄ fuit in principio: ergo nunc plus ꝙ̄ in.f. ꝓportiōe velocius induciť gradus ſumm9 in.d. ꝙ̄ in principio inducebať in.a. & per octauā ɔclōnez in.f. ꝓportione preciſe velocius induciť in.d. ꝙ̄ in.c. eo ꝙ.d. eſt in.f. ꝓportione maius.c. ergo nūc velocius iduciť gradus ſummus in.c. ꝙ̄ in principio inducebať in.a. & ſic de omni alio inſtanti eſt arguendum: ergo ſequiť cōcluſio. ❡ Iſtaꝝ ſex ɔclōnuꝫ due prime ꝓbantur per hoc ꝙ in omni pte iſtius manebit cōtinue equalis latitudo extenſiue ſicut in principio eſt in eadez parte. Due alie probanť per hoc ꝙ in omni pte iſtius erit maioratio latitudinis extenſiue. Et due vltime ꝓbantur per hoc ꝙ in omni parte iſtius eſt minoratio latitudinis vt arguitꝫ eſt. Ubi tamē eſt difformiter difformis alteratio: vel difformiter difformis rarefactio: vel cōdēſatio nulla poſſet poni certa regula generalis: eo ꝙ hꝰ difformitas infinitis modis poterit variari.

Undecia regula ſive ɔclo. 42.

❡ Alicuius ſubti vniformiter difformis extremo equeuelociter per rarefactionem vniformē quo ad ſubiectuꝫ recedente ſicut ſummus gradus induciť quieſcente extremo ſummo per totum id deueniet gradus ſummus.

§ 43

❡ Itē per.a. equecito deueniet gradus ſummus preciſe ſicut per.b. & tamē citius per.a. ꝙ̄ per.b. Concluſio ſcđa includit cōtradictionē manifeſte: iō non arguiť cōtra illaꝫ. ❡ Contra primā arguiť ſic. Si extremuꝫ equeuelociter continue recedet ſicut gradus ſummus induceť: ergo inter gradum ſummū & id extremū cōtinue erit equalis diſtantia: ergo nunꝙ̄ per totuꝫ deueniet gradus ſumm9 manente rarefactiōe. ❡ Itē ſi ſit totuꝫ gratia argumēti pedale: tunc ex quo totuꝫ rareſcit ſic ꝙ extremuꝫ equeuelociter recedit ſicut gradus ſumm9 incipit induci: ſequiť ꝙ incipit rarefieri tali gradu quo pōt fieri dupluꝫ in tēpore in quo gradus ſummus mediāte iſta inductione deueniret per totuꝫ: cuꝫ ergo nūc inductio manebit vniformis & equeuelox ſicut tunc per cōcluſionez: ſequiť ꝙ nunc ſic moto extremo nō deueniet gradus ſummus per totuꝫ: quia quātitas eſt maior ꝙ̄ prefuit. Silr̄ alteratio tardior: qđ nō foret niſi gradus ſummus tardius per ipſum deueniret. Et ꝙ alteratio erit tardior ſatis pꝫ: qꝛ alteratio velocius induceť ꝙ̄ in principio īcipit induci. ɔñs eſt cōtra cōcluſionez: ſequiť ergo ɔclōnez fore falſaꝫ. ❡ Et ꝙ ipſa ſit vera arguiť ſic. Ponať ꝙ.b. ſit vniformiter difforme terminatuꝫ ad ſummū & pedale gratia exempli & rareſiat ad tripluꝫ vnifor' acquirēdo quātitatez: & ſequiť ꝙ inductio vnifor' maiorabiť: quia altereť gradu vniformi quo pōt fieri ſummū in tempore in quo maiorabiť ad ſuū tripluꝫ: tunc ꝓpor' ſicut quātitas erit maior: ita velocius induceť ꝓtunc gradus ſumm9 ꝙ̄ in principio incipit: & eque ꝓpor' intendeť ſicut quātitas maiorabiť: & quātitas vniformiter maiorabiť: ergo inductio vniformiter. Añs pꝫ: qꝛ ponatur ꝙ.c. ſit cōſimile.b. in principio & altereť eodez gradu quo b. tñ nō rareſiat: tūc ꝓpor' ſicut.b. erit maius.c. ita veloci9 iduceť gradus ſumm9 in.b. ꝙ̄ in.c. qꝛ ſicut totū.b. ſe hēbit ad.c. ita pars alterāda.b. ad ptē alterādaꝫ.c. ſicut & totū.b. ad ptē ſuā alterādaꝫ ſe hēbit: ita.c. ad ptē ſuā alterādam: ꝑ ꝑmutatiꝫ ſicut.b. ad.c. ita pars remiſſa.b. ad ptē remiſſaꝫ.c. ɔtinue ſe hēbit. Et ſicut ps alterāda.b. ad ptē alterādā.c. ita inductio gradus ſūmi in.b. ſe hēbit ad iductionē ꝑdus ſummi in.c. ꝑ ſicut.b. erit maius ꝙ̄ nūc eſt: ita veloci9 induceť in.b. ꝙ̄ in.c. qꝛ ſicut erit mai9 ꝙ̄ nūc eſt: ita erit mai9.c. Et ita velociter ſicut induceť in.c. induciť vel īcipit iduci in pn̄o in.b. ergo ſicut.b. erit maius ꝙ̄ nūc eſt: ita veloci9 induceť gradus ſumm9 in ipm̄ ꝙ̄ nūc induciť: ꝑ iductio gradus ſūmi in.b. eque ꝓpor' intēdeť ſicut quātitas maiorabiť: & quātitas vnifor' maiorabiť: ꝑ inductio gradus ſūmi in.b. vnifor' intendeť ad tripluꝫ. Sit ergo ꝙ in pn̄o gratia argumēti ſit inductio gradus ſūmi vt duo: & ſequiť ꝙ intēdetur vnifor' ad ſex: & oīs latitudo motus vnifor' acqſita ſuo gradui medio corrñdet: ꝑ tota iſta inductio vt acqriť gradui vt quatuor corrñdet. Cuꝫ ꝑ iſta hora in qua vt poniť fiet rarefactio: totū id pedale fiet ſummū mediāte iſta alteratiōe: & nūc inductio gradui in duplo intēſiori corrñdebit ꝙ̄ in pn̄o: ſequiť ꝙ nūc ſoluꝫ inducetur per bipedale circūſcripta quātitate acqſite pti ſumme dum ipſa fuerit ſumma. ɔña ſatis nota eſt: poſito ꝙ.a. ſit oīo ſimile & rareſiat ɔtinue ɔſilr̄ ſicut.b. tñ ſi intēdať nūc alteratio in.a. ita ꝙ inductio gradus ſummi corrñdeat gradui vt quatuor & varieť alteratio: ita ꝙ ɔtinue eidez gradui corrñdeat iductio ſicut in pn̄o tunc extremū.a. equeue' intēdet per rarefactionē ſicut gradus ſumm9 induceť vt pꝫ per caſum: qꝛ extremū mouebiť tali gradu quo tranſiretur bipedale in hora: & talis nūc eſt inductio ꝙ per iſtaꝫ pōt fieri bipedale ſummū in hora per caſuꝫ. Et ꝙ mediante iª inductiōe deueniet gradus ſumm9 ad extremū in iſta hora. ꝓbo ſic. gradus ſumm9 cōtinue erit ꝓpinquius extremō remiſſiori.a. ꝙ̄ extremo remiſſiori.b. ergo equecito vel citius deueniet gradus ſumm9 per.a. ſicut per.b. ɔña pꝫ: & añs ꝓbo. nunc velocius incipit gradus ſummus induci in.a. ꝙ̄ in.b. vt pꝫ per caſuꝫ: ꝑ nūc incipit pars ſumma eē maior pte ſūma.b. & cōtinue erit maior: qꝛ ſi nō: ſigneť id inſtans in quo deſinet eſſe maior: & ſequiť ꝙ tunc erūt iſte ptes.a.b. equales. ſed ꝙ nō arguiť. ꝙ ſi ſic tūc ɔtinue ante id inſtās erit pars ſumma.a. maior pte ſumma.b. & oēs partes equales equeuelociter cōtinue acqrent de quātitate: ergo ps ſumma.a. cōtinue vſqꝫ ad id inſtās maiorē quātitatē acquiret parte ſumma.b. & cōtinue ante erit maior: ergo tūc erit ps ſumma.a. maior pte ſumma.b. ❡ Itē totalis inductio gradus ſūmi in.b. ꝑciſe erit tanta ſicut tota inductio in.a. ſed in oī pte hore terminata ad pn̄m erit inductio gradui remiſſiori corrñdens.b. ꝙ̄ in tota hora: ꝑ in iſta pte tpīs gradui intenſiori corrñdebit iductio gradus ſūmi in.a. ꝙ̄ in.b. ꝑ circūſcripta quātitate acqſita pti ſumme.a. duꝫ fuerit ſumma: & ſic de.b. erit gradus ſumm9 iduct9 per maiorē ptē.a. ꝙ̄ per b. & quātitas acqſita oī parti ſumme.a. in iſta pte tpīs erit maior quātitate acquiſita pti ſumme.b. in eadez pte tpīs eo ꝙ cōtinue vſqꝫ ad id inſtans erit pars.a. ſumma maior parte.b. ſumma pꝫ: quia in iſto inſtāti ſignato erit pars.a. ſumma maior parte ſumma.b. & ſic pro oī alio inſtanti eſt arguēdū: ꝑ ɔtinue eſt pars ſumma.a. maior pte ſumma.b. & tote quātitates ſemꝑ erunt equales: ergo ſemꝑ erit gradus ſummus ꝓpinquior extremo remiſſiori.a. ꝙ̄ extremo remiſſiori.b. ergo equecito vel citius fiet.a. ſummuꝫ ſicut b. & b. in iſta hora: ergo &c. ❡ Secunda concluſio arguitur.

ſic.tota inductio gradus ſummi in.a. eidem gradui corre-
ſpondebit ſicut tota in.b.⁊ ſubiecta ſunt equalia ⁊ ꝯſimil'r
oīno maiorabitur:ergo equeccito deueniet per.b. ſicut per
a.⁊c̄.Et ꝙ citius per.a.ꝓbo ſic.pars ſumma.a.cōtinue erit
maior parte ſumma.b.vt argutū eſt: ergo maior quātitas
cōtinue acquiret̄ parti ſumme.a.ꝗꝫ parti ſumme.b.poſtꝗꝫ
ipſa fuerit ſumma:⁊ parti ſumme.b.acqrit̄ pedale poſtꝗꝫ
fuerit ſumma vt pꝫ per caſuꝫ:ergo parti ſumme.a. acqui-
ritur plus ꝗꝫ pedale poſtꝗꝫ ipſa fuerit ſumma: ergo quāti-
tas reſidua.a.nō erit bipedalis:ſed penes iſtam quātitatē
acquiſitaꝫ.ſ.parti ſumme poſtꝗꝫ fuerit ſumma non atten-
ditur inductio vt pꝫ:ergo quātitas penes quā attendet̄ in-
ductio gradus ſummi in.a.nō erit bipedalis:⁊ per bipeda
le mediante iſta inductione deueniet gradus ſummus in
hora:ergo ante finē hore deueniet gradus ſummus per.a.
qḋ fuit ꝓbanduꝫ:⁊ per.b.in hora preciſe:ergo citius per.a.
ꝗꝫ per.b.❡ Ad ideꝫ arguitur ꝓbādo ꝙ citius fiet.a. ſum-
muꝫ ꝗꝫ.b.nam quātitas.a. vniformiter maiorabit̄ ad tri-
plum:ergo tardius ⁊ tardius ꝓpor' maiorabit̄:⁊ alteratio
eque ꝓpor' minorabit̄ ſicut quātitas maiorabit̄: q2 aliter
nō vniformiter inducet̄ gradus ſummus vt ꝓbatum eſt
cōcluſione 13ª:⁊ ſic tardius ⁊ tardius ꝓpor' minorabitur
alteratio.a.⁊ per cōſequēs tardius ⁊ tardius ſimil'r mino-
rabitur ſicut iſta alteratio.a. vt quatuor: ⁊ ſequit̄ ꝙ alte-
ratio.b.erit vt duo ſoluꝫ:quia in duplo velocius īcipit gra
dus ſummus iduci in.a.ꝗꝫ in.b.Sed alteratio.a.vt deper-
ditur correſpōdet gradui intenſiori ꝗꝫ eſt duo: ergo citius
fiet.a.ſummū ꝗꝫ.b.ꝯña ⁊ maior patent:⁊ minor ſic arguit̄.
Alteratio in.a.tardius ⁊ tardius deperdet̄:⁊ in inſtāti me-
dio erit vt duo:ergo correſpōdebit gradui intēſiori ꝗꝫ eſt
duo.ꝯña pꝫ per cōcluſioneꝫ 58ᵃᵐ de motu locali: vbi pro-
batur ꝙ omnis motus tardius ⁊ tardius deperditus gra-
dui intenſiori ꝗꝫ eſt gradus habitus in inſtanti medio cor-
reſpondet:⁊ minor ſic arguit̄.totuꝫ.a.vniformiter rareſiet
ad triplum: ergo in inſtanti medio erit in duplo maius ꝗꝫ
nūc eſt.ꝯña ſatis pꝫ: ⁊ eque ꝓpor' minorat̄ alteratio ſicut
quātitas maioratur:ergo in inſtāti medio erit alteratio in
duplo minor ꝗꝫ nūc eſt:⁊ nunc eſt vt quatuor:ergo tūc erit
44ª ȝ vt duo:ſequit̄ ergo ꝓpoſituꝫ ex iſto.ſ.❡ De inductiōe exi-
ſtente tardiori ꝗꝫ motus extremi ⁊ vbicūqꝫ manente vni-
formi per totuꝫ deueniet gradus:quia.a. fiet ſummū ante
fineꝫ hore.ſtaret ergo alterationē eſſe tardiorē ⁊ inductio-
neꝫ:ita ꝙ in iſta hora preciſe deueniret ad extremū: ⁊ tūc
foret inductio tardior motu extremi:ergo ⁊c̄. ❡ Cōtra id
arguit̄.vt cōtra ꝓximā cōcluſionē ⁊ id argumentū eſt for
tius cōtra iſtaꝫ cōcluſioneꝫ ꝗꝫ cōtra illaꝫ.❡ Pro iſtis con
cedenda eſt cōcluſio 42ª: ⁊ ſimil'r cōcluſio 44ª. ⁊ negat̄
iſ cōcluſio prius dicta. ❡ Ad primū argumentuꝫ quando
arguitur ſic: equeuelociter recedet extremuꝫ ſicut gradus
ſummus inducet̄: ergo inter graduꝫ ſummū ⁊ extremum
cōtinue erit equalis diſtātia ſicut in principio. negat̄ ꝯña:
quia gradus ſummus nō mouebit̄ ſolum motu inductio-
nis:ſed mouebit̄ rōne rarefactionis ptis ſumme: qui mo-
tus cuꝫ inductione cōtinue erit velocior ꝗꝫ motꝰ extremi:
⁊ ſic ſoluit̄ id argumentū. ❡ Pro iſto argumēto cōcedit̄
ꝙ extremū incipit moueri tali gradu:ſeu incipit rareſieri
tali gradu quo fieret dupluꝫ in tp̄e in quo gradus ſummꝰ
deueniret per totuꝫ ſtante alteratione:⁊ ideo id argumētū
bene probat ꝙ in iſto tēpore in quo rareſieret ſoluꝫ ad du
pluꝫ nō deueniet gradus ſummus per totū:īmo in tēpore
maiori vt ſatis pꝫ eſſe ꝓbatuꝫ:eo ꝙ ſua alteratio remittet̄
⁊ etiaꝫ per plus ꝗꝫ per pedale inducet̄: ⁊ per motuꝫ extre-
mi ſoluꝫ tranſibit̄ pedale in tempore in quo fiet duplum.
❡ Pro cōcluſione reducta dicit̄ ꝙ per.a. citius deueniet
gradus ſummus ꝗꝫ per.b.qḋ ſic oſtendit̄ : pars ſumma.a.
cōtinue erit maior ꝗꝫ pars ſumma.b. ergo illi pti ſūme.a.
poſtꝗꝫ fuerit ſumma maior quātitas acquiret̄ ꝗꝫ pti ſūme
b.⁊ per ꝯñs pars remiſſa vt prius nō erit bipedalis ⁊c̄. vt
arguīuꝫ eſt in cōcluſione.⁊ negat̄ ꝯñtia.ſ.totales inductio-
nes eideꝫ gradui correſpōdebūt ⁊ ſubiecta nūc ſunt equa-
lia ⁊ conſimil'r maiorabunt̄ : ergo equeccito per iſta deue-
niet gradus ſummꝰ : q2 pars ſumma poſtꝗꝫ fuerit ſumma
plus acquiret de quātitate ꝗꝫ pars ſumma.b.⁊ penes quā-
titatē acquiſitā parti ſumme poſtꝗꝫ erit ſumma nullo mō
attēdet̄ inductio:ergo 44ª cōcluſio eſt cōcedenda:⁊ argu
mentū in oppoſitū ſi fiat ſoluit̄ vt prius.❡ Extremo vni- 45ª ȝ
formiter difformi vnifor' recedente per rarefactionē vni-
formē quo ad ſubiectuꝫ inductio gradus ſummi remittet̄
ad nō gradū:⁊ tamē per id totuꝫ deueniet gradus ſūmus.
❡ Oz nō arguit̄ ſic.Si in infinituꝫ remittet̄ inductio ma-
nente motu extremi vniformi in infinitum velocius aliqñ
recedet extremū ꝗꝫ ğdus ſummus inducet̄: ⁊ ꝯtinue ante
fineꝫ erit aliqua diſtantia inter iſta:ergo in fine nō erit ad
extremū.❡ Ad iſtaꝫ cōcluſioneꝫ ꝓbādaꝫ arguit̄ ſic. Sit
a.pedale vniformiter difforme:⁊ ſit.b.bipedale vniformi-
ter difforme eadeꝫ latitudine terminata ad ſummū ⁊ alte-
rentur eodeꝫ gradu vniformi:qui gradus remittat̄ vnifor
miter ad nō gradum in iſto tp̄e in quo.b. fiet ſummū per
iſtaꝫ latitudinē:⁊ rareſiat.a.vnifor' quo ad tempus ⁊ quo
ad ſubiectū in iſto tēpore ad equalitateꝫ.b. ⁊ ſequit̄ ꝙ ex-
tremū.a.vniformiter recedet:eo ꝙ erit acquiſitio quātita-
tis vniformis quo ad tēpus: ⁊ inductio gradus ſummi re-
mittet̄ ad nō graduꝫ in.a.quia in.b.remittet̄ inductio gra
dus ſummi ad nō gradum:⁊ tardior erit cōtinue inductio
gradus ſummi in.a.ꝗꝫ in.b. ergo in.a. remittet̄ ad nō gra-
dum.ꝯña de ſe pꝫ:⁊ maior pꝫ per ꝯclonē 30ᵃᵐ.⁊ minor ar-
guitur. Totuꝫ.a.erit cōtinue minus.b. ⁊ ad puncta eorum
correſpōdentia equeccito deueniet gradus ſummus : eo ꝙ
equal'r diſtent a ſummo ⁊ alterationes erunt equales: igit̄
pars alterāda.a.ſemꝑ erit minor parte alteranda.b. ⁊ iſte
partes erunt vniformiter difformes eadem latitudine vt
notum eſt : ⁊ alterationes erunt equales:ergo tardius con
tinue inducetur gradus ſummus in.a. ꝗꝫ in.b. Et ꝙ.a. fiet
ſummū patet:quia.b.fiet ſummū in iſto tempore:⁊ ad oēꝫ
punctuꝫ.a.cōtinue erit equalis rarefactio ſicut ad punctū
correſpōdenteꝫ : ⁊ equaliter omnia huiuſmodi puncta di-
ſtant a ſummo:ergo ad omnē punctū.a.equeccito deueniet
gradus ſummus ſicut ad punctuꝫ correſpondentē.b.ergo
in iſto tēpore fiet.a.ſummuꝫ:ſequit̄ ergo ꝯcluſio. ❡ Ideo
dicit̄ eam concedendo.⁊ ad argumentuꝫ in oppoſituꝫ ne-
gatur ꝯñtia vltima:quia nō ſolum mouebitur iſte gradus
per inductionē ſed per motum aliaruꝫ partium vt predi-
ctum eſt:⁊ ideo argumentū bene cōcludit ꝙ plus pertran
ſibitur per motuꝫ extremi ꝗꝫ per inductioneꝫ in alia certa
parte terminata ad fineꝫ:ex quo tamē non ſequitur ꝙ gra
dus ſummus nō deueniet per totuꝫ.❡ Et ideo ſequit̄ iſta 46ª ȝ
cōcluſio ꝙ mediante motu vniformi extremi per rarefa-
ctionem que rarefactio ſit ſoluꝫ in parte nō ſumma exiſtē
te inductione equeueloci cuꝫ motu iſtius extremi:vel tar-
diori:vel ipſa remiſſa ad nō gradum : per illud non deue-
niet gradus ſummus:q2 tunc non mouebitur gradus ſum-
mus niſi per inductioneꝫ : eo ꝙ nō erit motus rarefactio-
nis in parte ſumma. Si ergo motꝰ extremi ſit equeuelox
cum inductione vel velocior nunꝗꝫ manente iſto motu ad
extremū deueniet gradus ſummus qḋ eſt concedendum.
❡ Quelibet pars.a.citius fiet ſumma ꝗꝫ pars correſpondens 47ª ȝ
b.⁊ nō citius:q2 ponat̄ ꝙ.a.b.ſint duo vniformiter diffor-
mia terminata ad ſummū ꝯſilia qualitatiue ⁊ quātitatiue:
⁊ rareſiat oīno ſimil'r vtrūqꝫ.ſ.vniformiter quo ad ſubie-
ctū:ita ꝙ queliꝫ ps eq̄lis equal'r de quātitate:⁊ ſit alteratio :

in.a.vt quattuoꝛ que remittatur vniformiter vſqꝫ ad duo: ⁊ alteretur.b.aliquo gradu ſupra gradum vt tria: tunc tota alteratio.b.correſpondet gradui intenſioꝛi ꝗ̃ tota alteratio.a.quia alteratio.a.correſpondebit vt 3ᵃ: ⁊ per ꝯñs citius fiet.b.ſummū ꝗ̃.a.ergo nō quelibet pars.a.citiꝰ erit ſumma ꝗ̃ pars correſpōdens.b.ergo ſcđa pars cōcluſionis eſt vera. Et ꝙ pͥma pars ſit vera arguit̃ ſic. Pars ſumma.a.cōtinue erit maioꝛ ꝗ̃ pars ſumma.b.⁊ totū.a.equale toti.b.ergo ⁊c.añs pꝫ: quia nunc incipit pars ſumma.a.eē maioꝛ parte ſumma.b.eo ꝙ velocioꝛ eſt alteratio in.a.ꝗ̃ in.b.⁊ cōtinue erit maioꝛ:qꝛ ſi non:ſit ita ꝙ in.c.inſtanti deſinet eſſe maioꝛ: ita ꝙ tunc erunt partes ſumme equales in.a.⁊ in.b. Cōtra.cōtinue ante.c.velocius maioꝛabitur pars ſumma.a.ꝗ̃ pars ſumma.b.⁊ aliqñ ante id inſtās erit pars ſumma.a.maioꝛ pte ſumma.b.ergo tunc erit maioꝛ. ꝯña patet cuꝫ minoꝛi: ⁊ maioꝛ ſic arguit̃. oēs partes equales.a.b.equevelociter acquirent de quātitate: g̃ pars ſumma.a.cōtinue ante.c.inſtans per datum erit maioꝛ parte ſumma.b.ſequit̃ ꝙ pars ſumma.a.cōtinue velocius acquiret de quātitate ꝗ̃ pars ſumma.b.⁊ per ꝯñs velocius continue maioꝛabit̃ pars ſumma.a.ꝗ̃ pars ſumma.b.qđ fuit ꝓbandū. Sequit̃ etiā ꝙ in.c.inſtanti erit pars ſumma.a.maioꝛ pte ſumma.b.⁊ partes correſpōdentes.a.b.cōtinue erunt eq̄les: ergo quelꝫ pars.a.citius erit ſumma ꝗ̃ pars corrñdēs.b.qꝛ ſicut arguit̃ de.c.inſtāti:ita de omni alio eſt arguēdū:ſequit̃ ergo cōcluſio. ¶ Sed pro ꝯcl'one negat̃ pͥma pars ⁊ cōcedit̃ ꝙ nūc incipit pars ſumma.a.eē maioꝛ pte ſumma.b.ſed nō cōtinue erit maioꝛ ⁊ admittat̃ ꝙ in.c.erit preciſe ſibi eq̄lis. Et nūc qñ arguit̃ ꝙ ꝯtinue añ.c.velocius maioꝛabit̃ pars ſumma.a.ꝗ̃ pars ſumma.b.negat̃. Et nūc qñ arguit̃ ꝫ̃.oēs ptes eq̄les.a.⁊.b.equeꝰ acq̄rēt de quātitate: ſed pars ſumma.a.cōtinue ante.c.erit maioꝛ pte ſumma.b.ergo ꝯtinue velocius acq̄ret de quātitate: ⁊ per ꝯñs velocius maioꝛabit̃.negat̃ ꝯña:qꝛ dupl'r maioꝛabit̃ pars ſūma vtriuſqꝫ.ſ.per rarefactionē ⁊ per inductionem gradus ſummi:ideo bene ſequit̃ ꝙ ꝯtinue ante.c.velocius maioꝛabit̃ pars ſumma.a.ꝗ̃ ps ſumma.b.⁊ hoc ꝑ rarefactionē:ſed tardiꝰ maioꝛabit̃ per inductionē ante.c.pars ſumma.a.ꝗ̃ ps ſumma.b.eo ꝙ ante.c.tardius inducet̃ gradus ſummꝰ in.a.ꝗ̃ in.b.⁊ ideo nō ſeq̄t̃ ꝙ tota maioꝛatio quātitatis ptis ſumme.a.ꝯtinue añ.c.erit velocioꝛ ꝗ̃ maioꝛatio ptis ſumme.b.⁊ ſic nō ꝓcedit argumentum.

48ª ʒ ¶ Gradus ſummꝰ in certo tpe finito inducet̃ per.a.qui in nullo finito īducet̃ per.a. Sit.a.vniformiter difforme terminatū ad ſummū alteratū latitudine alterationis vniformiter difformi ad nō gradum terminata extremo remiſſioꝛi verſus extremū remiſſius ſubiecti: ⁊ ad oēm punctū a.intendat̃ alteratio in infinitū ⁊ correſpōdeat gradui duplo:⁊ ꝓpoꝛtionabil'r ſicut puncta minus diſtāt a ſummo: ita in tpe minoꝛi ad iſta puncta intendat̃ alteratio in infinitum ⁊ intendat̃ gradus correſpōdens medio puncto in infinitū in hoꝛa: ⁊ ſequit̃ ꝙ ad extremū remiſſius in duabus hoꝛis preciſe fiet hꝰ intenſio:tunc in fine illaꝝ duarū hoꝛaꝝ fiet a ſummuꝫ:qꝛ ſi nō:ad oēm punctū tunc erit gradus ſummꝰ. Sit iſte.d.cōtra ad.d.ante iſtud inſtās erit alteratio infinita:ergo ad illuꝫ ſubito inducet̃ tota latitudo per quā deficiet a ſummo: ⁊ ita de omni alio pūcto eſt arguendū:ergo per totum.a.deueniet gradus ſummꝰ. Et ꝙ nō arguit̃ ſic.mediante latitudine nūc extenſa in.b.nunꝗ̃ foret.b.ſummū vt cōſtat: qꝛ erit īfinite tarda alteratio ad extremū remiſſius.cuꝫ ergo ad oēm punctū correſpondebit alteratio gradui in duplo intenſioꝛi preciſe ꝗ̃ in pͥncipio:ſequit̃ ꝙ nō per totū.a.deueniet gradus ſummꝰ. Pro quo dicit̃ ꝙ.a.nō fiet ſummū: nec ad aliquē eius punctuꝫ deueniet gradus ſummꝰ niſi imaginet̃ ad puncta alia caliditateꝫ intendi vltra ſummū:qđ ſic arguit̃. Si ad aliqueꝫ deueniet gradus ſummꝰ ſit ille.d.cōtra.ad aliuꝫ punctū.ſ.mediuꝫ.d.⁊ ſummū correſpōdebit alteratio gradui intenſioꝛi ꝗ̃ ad iſtum punctuꝫ: ⁊ per in duplo minus tps durabit alteratio ad illuꝫ ꝗ̃ ad.d.vt ponit̃ in caſu. Si ergo ad illum punctū mediū in tpe ſubduplo.d.non deueniet gradus intenſioꝛ ꝗ̃ eſt gradus ſummus:ſequit̃ ꝙ ad.d.in iſto tpe duplo nō deueniet gradus ſummꝰ:eo ꝙ.d.in pͥcipio plus diſtat a ſummo ꝗ̃ iſte punctus medius. negat̃ ꝯñtia: ad oēm punctum erit alteratio infinita:ergo tota latitudo per quā deficiet a ſummo ſubito acquiret̃: qꝛ omnis latitudo que acquirit̃ neceſſario debet acquiri in tempoꝛe:qꝛ ſi in inſtanti acquireret̃ ſimul eſſet in acquiri ⁊ in acquiſito eſſe:qđ eſt impoſſibile.

¶ Alteratio in.a.in nullo tēpoꝛe finito intendet̃ in infinituꝫ:que tamē ſubito intendetur in infinitum per.a. 49ª ʒ Sit eniꝫ.a.vt prius alteratum latitudine terminata ad nō gradum.⁊ ponat̃ ꝙ quāto gradus aliqs alterationis eſt alio intenſioꝛ:ita in tempoꝛe minoꝛi intendetur in infinitum ⁊ correſpondeat gradui duplo quo ad acquiſitionē latitudinis: ⁊ ſequit̃ ꝙ ad punctū mediuꝫ alteratio in aliquo tempoꝛe intendet̃ in infinitum: ⁊ ad medium inter illum graduꝫ ⁊ nō gradum in tēpoꝛe duplo:⁊ ſic in infinituꝫ:ergo in nullo tempoꝛe finito per totum intendetur alteratio in infinitum. Et ꝙ per totum ſubito ⁊c. arꝰ ſic. Ad extremuꝫ remiſſius imediate poſt hoc erit alteratio intēſa in infiᵐ:eo ꝙ imediate poſt hoc inducet̃ gradus ſummus ad illud extremuꝫ: vel aliter ſequeret̃ ꝙ nihil mediante huiuſmodi alteratiōe acquireret̃ ⁊ in duplo citius intendetur alteratio in infinituꝫ ad extremū intenſius ꝗ̃ ad punctuꝫ medium:eo ꝙ alteratio ad extremum in duplo intenſioꝛ eſt ꝗ̃ alteratio ad punctuꝫ mediū:ergo imediate poſt hoc intendetur alteratio in infinitū ad punctum mediuꝫ. Et per idem ad omneꝫ parteꝫ ꝓpinquioꝛeꝫ extremo intenſioꝛi: ⁊ per idem ad mediuꝫ inter mediuꝫ ⁊ non gradum:⁊ ſic in infinituꝫ:ergo per totum ſubito intendetur:vel per nullam partē vnquā intendetur in infinitū. Ideo caſus non eſt poſſibilis niſi fiat alteratio poſtꝗ̃ ad punctum aliqueꝫ deueniet gradus ſummus ſicut ſatis ꝓbat argumentuꝫ: eo ꝙ ad extremū per certum tempꝰ neceſſario tunc maneret alteratio: vnde imaginata tunc latitudine caliditatis vltra gradum ſummū admittat̃ imaginatio:⁊ tunc cōceditur ꝙ per magnum tempus neceſſario erit alteratio ad extremuꝫ intēſius ⁊ certa latitudo acq̄retur illi extremo poſtꝗ̃ ipſi extremo gradus ſummꝰ deuenerit:⁊ ſic nō ꝓcedit argᵐ:id.n.cōceſſuꝫ eſt imaginabile ſicut caſus:⁊ ſic nō ꝓcedit arguᵐ.

¶ Capl'm 5ᵐ.

Nunc dicendum eſt qualiter per generationeꝫ partibilem alterationis per ſubiectum aliquod poteſt ipſum manere ſeu fieri vniformiter difforme. vnde vocatur vniformis generatio quādo ſicut ſunt puncta propinquioꝛa extremo a quo incipit alteratio progredi ſic citius ad illa deueniet:in qua materia quedaꝫ cōcluſiones ſeu regule notande ſunt:quaꝝ prima eſt hec. pª regla hª capli. ¶ Si per ſubiectuꝫ aliquod vniforme vel non qualificatum ſit vniformis generatio alterationis vniformis cum variatione aliqua totum ſubiectum fiet vniformiter difforme:⁊ etiam quelibet pars alterata ꝯtinue manebit vniformiter difformis:ſicut eniꝫ pūcta ſunt ꝓpinquioꝛa extremo verſus qđ ꝓgredit̃ alteratio: ita ad iſta puncta per minꝰ tempus durabit alteratio ꝗ̃ ad puncta remiſſioꝛa:ſicut ad extremū per in duplo maius tps durabit alteratio ꝗ̃ ad medium punctū: qꝛ cuꝫ alteratio deuenerit ad aliquem punctum manebit ad illum vſqꝫ in fineꝫ tempoꝛis:⁊ ita eſt de omnibus aliqs punctis.cum ergo ad omnia puncta erit al-

teratio equalis: patet ꝙ ſicut puncta ſunt propinquiora
extremo verſus quod ꝓgreditur alteratio: ita qualitas re/
miſſior ad iſta puncta acq̄ret: ⁊ per ꝯñs tota latitudo acq̄/
ſita erit vnifor' difformis ad nō gradum terminata. Si ḡ
totū in ꝑncipio ſit vniforme vel nō qualificatū: pȝ ꝙ tunc
totū erit vnifor' difforme: ⁊ ſic arguit̄ de omni parte hui⁹
cuȝ alteratio ad extremū eius deuenerit verſus qd̄ ꝓgre/
ditur alteratio: quia iſta pars tunc erit vniformiter diffor/
mis: ⁊ quelibet pars talis poſt continue alterabit̄ vno gra
du vniformi: ergo per concl'oneȝ ſc̄dam de inductiōe gra/
dus ſummi iſta pars continue manebit vnifor' difformis:
2ª regª ſeq̄t̄ ergo ꝯcl'o. ¶ Si ſit vniformis generatio latitudinis
alterationis non variate cōtinue vnifor' difformis: ita ꝙ
iſta latitudo alterationis ſm̄ ſe totam incipiat induci per
parteȝ ante partē reſpectu ſubiecti: ⁊ ñ a nullo pūcto rece᷒
poſtq̄ȝ ad illuȝ deuenerit ante finē tp̄is ſoluȝ nō fiet vni⁹
difforme: ſi in ꝑncipio totuȝ ſit vniforme vel nō qualifica/
tum: ſi eniȝ extremū remiſſius ꝑcedet: ſequit̄ ꝙ ad extre
a quo incipit ꝓgredi plus q̄ȝ in duplo maior latitudo acq̄/
ritur q̄ȝ ad punctū mediuȝ: ⁊ ad extremū verſus qd̄ ꝓgre/
ditur alteratio in fine erit nō gradus: q꞉ per nulluȝ tp̄s ad
illuȝ punctū manebit alteratio: igit̄ tunc totuȝ nō erit vni/
formiter difforme, ꝯña ⁊ maior patent: ⁊ minor ſic arguit̄.
Ad punctū medium per in duplo minus tp̄s durabit alte/
ratio q̄ȝ ad extremū illd̄: ⁊ tardior erit iſta alteratio ſemꝑ
ad punctū mediuȝ q̄ȝ ad illd̄ extremuȝ: ḡ plus q̄ȝ in duplo
maior latitudo acq̄ret̄ in extremo q̄ȝ puncto medio: ⁊ ſic
totum nō erit vniformiter difforme: ſi extremū intenſius
alterationis precedit: ſequit̄ ꝙ ad punctū mediuȝ erit ve/
locior alteratio q̄ȝ ad punctū illuȝ extremaleȝ: ⁊ per in du/
plo minus tp̄s durabit alteratio ad punctū mediuȝ q̄ȝ ad
illud extremuȝ: ergo nō in duplo maior latitudo acquiret̄
ad extremū q̄ȝ ad punctū mediuȝ: ⁊ per ꝯñs latitudo acq̄/
ſita nō erit vniformiter difformis. Si ḡ totū nᶜ ſit vnifor
vel nō qualificatū: ſequit̄ ꝙ totū tunc nō erit vniformiter
difforme: qd̄ fuit ꝓbādū. ¶ Per ſubiectū vniforme vel
nō qualificatū pōt aliqua eſſe generatio partibilis altera/
tionis vniformiter difformis ſine omni alia variatiōe: ita
ꝙ totuȝ fiat vniformiter difforme: ⁊ etiā ꝙ quelibet pars
alterata cōtinue maneat vniformiter difformis q̄cunqȝ
extremū precedat. Et primo arguit̄: vbi extremū intēſius
precedat. Deť eniȝ vnum vniformiter difforme terminatū
ad nō gradū alteratū latitudine vniformiter difformi ex/
tremo intēſiori verſus extremū remiſſius ſubiecti: que la/
titudo ſit corruptio iſtius qualitatis: ⁊ ſequit̄ ꝙ pūctis ꝓ/
pinquiorib⁹ extremo remiſſiori ſubiecti q̄litas corrūdens
citius corrumpet̄ q̄ȝ punctis remotiorib⁹ exiſtēte ergo al/
teratione vniformiter in parte reſidua ſemper: ⁊ ſequit̄ ꝙ
hec erit partibilis corruptio iſtius latitudinis alterationis
quo ad partes ſubiecti: ⁊ de iſto vniformiter difformi fiet
vniforme vel nō qualificatū: ergo ecōtra per cōſimileȝ ge
nerationē de vniformi fiet vniformiter difforme: ⁊ queliȝ
pars alterata cōtinue manebit vniformiter difformis: q꞉
nūc eſt vniformiter difformis ⁊ cōtinue manebit vnifor'
vl' 24ᵉˢ difformis alteratio per iſtaȝ. ꝯña pȝ per nonaȝ ꝯcluſioneȝ
de inductiōe gradus ſummi. Ideȝ eſt argumentū de vni/
formiter difformi terminatū ad ſummū alteratū hōi alte/
ratione: q꞉ gradus ſumm⁹ partialr̄ inducet̄: ⁊ ſic partialr̄
educet̄ iſta latitudo alterationis ⁊ de vniformiter diffor/
mi fiet vniforme: q꞉ ſummū. ideo ecōtra poſſet eſſe gene/
ratio partibilis: ita ꝙ ō vniformi fiet vniformiter diffor.
¶ Ideȝ arguitur ſi extremū remiſſius precedat. Deť eniȝ
tale terminatū ad nō gradum alteratū latitudine ad duos
gradus terminata vniformiter extēſa extremo remiſſiori
ad extremuȝ remiſſius ſubiecti: ⁊ ſequit̄ ꝙ nūc incipit eſſe

Tertia regula ⁊ per hāc verifi cat primo cōcl'o adducta cōtra ſc̄daȝ opionē ō difformib⁹ tract. 2.

corruptio qualitatis ad nō gradum ⁊ ad extremuȝ remiſ/
ſius eſſe: eo ꝙ alteratio eſt ibi certa: ergo erit ꝑtibilis edu/
ctio iſtius latitudinis alteratiōis per quā vniformiter dif/
forme fiet vniforme vel nō qualificatuȝ: non eniȝ fit acq̄/
ſitio qualitatis per imaginationeȝ: ⁊ ſi ſic ecōtra per gene/
rationeȝ partibilem vniforme vel nō qualificatū fiet vni/
formiter difforme: ſequit̄ ergo cōcluſio. ¶ Per nullaȝ ge 4ª regª
nerationē latitudinis vniformiter difformis ad nō gradū
terminate per ſubiectū vniforme poteſt ipſuȝ fieri vnifor
miter difforme: quia nō poteſt ſi extremuȝ intenſius pre/
cedat: eo ꝙ ad neutruȝ extremū tunc eſſet qualitas acqui/
ſita: nec extremo remiſſiori precedēte: quia ex quo altera/
tio ſemper erit vniformiter difformis terminata ad nō gra
dum: patet ꝙ in fine preciſe erit gradus ſummus mot⁹ al/
terationis ad punctuȝ mediuȝ ſubiecti: ⁊ per cōſequēs al/
teratio ad extremuȝ ſemper erit plus q̄ȝ dupla ad altera/
tionem ad punctuȝ mediū ⁊ ad extremū per maius tēpus
durabit alteratio q̄ȝ ad punctuȝ medium: eo ꝙ generatio
partibilis iſtius alterationis: ergo plus q̄ȝ in duplo maior
latitudo acquiret̄ ad extremuȝ q̄ȝ ad punctum medium: ⁊
per cōſequēs totum nō erit vniformiter difforme. ¶ Per 5ª regª
generationē difformē alterationis ad non gradum termi/
nata de vniformi poterit fieri vniformiter difformis ſine
alijs mutationib⁹. Sint enim. a. b. vniformiter difformia
ad nō gradū terminata ⁊ alteret̄. a. latitudine vniformi/
ter difformi ad nō gradum terminata ⁊ alteret̄. b. iſta lati
tudine difformiter extenſa: ita ꝙ ad aliquem punctuȝ. b.
erit in duplo velocior alteratio q̄ȝ ad punctuȝ correſpon/
dentem in. a. ⁊ ad aliqueȝ alium punctum. b. verſus extre/
mum remiſſius ſit in quadruplo velocior alteratio q̄ȝ ad
punctum correſpondentē. a. ⁊ ſic in infinitum: qd̄ eſt ſatis
poſſibile: ex quo vtraqȝ alteratio eſt terminata ad nō gra/
dum: ita ꝙ nunc incipiat eſſe corruptio qualitatis ad ex/
tremuȝ remiſſius. b. ⁊ ſic ad omneȝ alium punctuȝ. b. eſſet
alteratio velocior q̄ȝ ad punctum correſpōdentē. a. preter
q̄ȝ ad extremū intenſius: quo poſito per. b. iſtius alteratio/
nis erit corruptio terminata ad nō gradum per quaȝ vni/
formiter difforme fiet vniforme vel nō qualificatū: ergo
ita poſſet eſſe ecōtra per partialeȝ generationē. ¶ Si per 6ª regª
generationē latitudinis vniformiter difformis alteratio/
nis extremo intenſiori ꝑcedente de vniformi fiat vnifor/
miter difforme infinitē tarde incipit iſta latitudo ꝓgre/
di: quia ſi nō: ſit illud ſubiectū. a. ⁊ ſit nunc finis iſtius tem/
poris: ⁊. b. vniformiter difforme terminatū ad ſummū: ita
ꝙ quilibet punctus. b. per tantū diſtet a ſummo ſicut pun
ctus correſpōdens. a. diſtat a nō gradu ⁊ alteret̄. a. tali la/
titudine ſicut prius mediāte qua fiat corruptio eius qua/
litatis: ita ꝙ extremū intenſius ſit verſus extremū remiſ/
ſius ſubiecti que latitudo ſemper extendat̄ in parte alte/
rata vt prius: ⁊ intendat̄. b. ad ſummuȝ mediante ꝯſimili
alteratione: ita ꝙ ad omneȝ punctum. b. verſus extremū
intenſius ſit equalis alteratio ſicut ad punctum correſpō/
dentem. a. verſus extremuȝ remiſſius: tunc ad omneȝ pun
ctum. a. eque cito deueniet nō gradus ſicut ad punctū cor/
reſpondenteȝ. b. deueniet gradus ſumm⁹ vt patet: eo ꝙ ad
omneȝ punctum vnius eſt tanta alteratio ſicut ad punctū
correſpōdenteȝ alterius: ⁊ oīa puncta. b. equaliter diſtant
a ſummo ſicut puncta correſpōdentia. a. a nō gradu: ergo
equeuelox cōtinue erit inductio alteratiōis in iſtis duob⁹.
in. a. eniȝ equeuelociter educit̄ ſicut qualitas: ⁊ in. b. eque/
uelociter ſicut gradus ſummus inducit̄. cuȝ ergo in infini/
tum remittet̄ inductio gradus ſummi in. b. per ꝯneȝ 17ᵃᵐ
de inductione gradus ſummi: ſequit̄ ꝙ in infiⁿ tarde rece
det ei⁹ alteratio a toto: ⁊ ſic erit de. a. ſed equeuelociter in/
ducet̄ alteratio ab. a. ſicut ꝑus inducebat̄: q꞉ ad omnē pun/

ctum equecito remittet qualitas ad nõ gradũ ſicut prius
acqrebat: ergo in infinitũ tarde incipiebat induci qḋ fuit
7ª regª probandum. ¶ Si per gñationem latitudinis vniformiter
difformis vniforme fiat vniformiter difforme extremo re
miſſiori pcedente ⁊ alio quieſcẽte in infinitũ velociter inci
pit iſta latitudo pgredi in iḋ ſubiectum vt pxime iam de
monſtrat: eo φ pbatum eſt cõcluſione 2ª de inductione
gradus ſummi: φ in infinitũ velociter inducetur gradus
ſumm⁹ in ſubiectũ vniformiter difforme terminatum ad
ſummũ alteratũ latitudine vniforʳ difformi extremo intẽ
ſiori verſus extremũ remiſſius ſubiecti. ¶ Si per ſubm
vniforʳ fiat vniformis alteratio gradus alterationis vni
formis cõtinue manentis vniformis qui gradus intendat
vel remittat iſto ſubiecto aliunde nõ moto, illud ſubiectũ
8ª regª nõ põt fieri vniforʳ difforme. ¶ Si enim alteratio inten
datur: ſequit φ in ſcḋa medietate iſtius tẽporis maior la
titudo acquiret ad extremũ φ in pma medietate acqrit
ad extremũ idẽ: ⁊ tanta latitudo acquiret in ſcḋa medie
tate ad punctũ mediũ ſicut ad extremũ acquirit in eadẽ
medietate: eo φ alteratio erit vniformis: ⁊ per totã iſtam
ſcḋã medietatẽ durabit iſta alteratio ad punctũ illũ me
diũ: ergo nõ in duplo maior latitudo acqret ad extremũ
φ ad punctũ mediũ: ⁊ per ꝯñs totũ nõ fiet vniforʳ diffor
me. Si vero ſit remiſſio alterationis: ſequit φ in pma me
dietate tpis maior latitudo acqret extremo φ in ſcḋa me
dietate: ⁊ ad punctũ mediũ tanta latitudo pciſe acquiret
ſicut ad extremũ in 2ª medietate tpis: eo φ alteratio erit
vniformis per ſcḋã medietatẽ tpis ad punctũ mediũ ſo
lum durãs: ergo plus φ in duplo maior latitudo acqretur
ad extremũ φ ad punctũ mediũ: ⁊ per ꝯñs cum totũ ſit
vniforme vel nõ qualificatũ ⁊ in fine latitudo acqſita ter
minabit ad nõ gradũ: ergo totũ nõ fiet vniforʳ difforme.
9ª regª. ¶ Per vniformẽ generationẽ latitudinis alteratiõis vni
formiter difformis per ſubiectũ vniforme vna cũ varia
tione alterationis illud ſubiectum fiet vniforʳ difforme: ⁊
3 regᵃᵐ quelꝫ eius pars qḋcũqꝫ extremũ pcedat. ¶ Cõtra illã ſic
arguit. Si extremũ remiſſius precedet tardior ꝯtinue erit
alteratio ad punctũ mediũ φ ad extremũ in quo incipit
alteratio progredi: ⁊ per in duplo minus tps erit alteratio
ad punctum mediũ φ ad extremũ: ergo plus φ in duplo
maior latitudo acqret ad extremũ φ ad punctũ mediũ:
⁊ tota latitudo acquiſita terminabit ad nõ gradũ: eo φ ad
illud extremũ preciſe in fine deueniet alteratio: ergo iſta
latitudo acqſita nõ erit vniformiter difformis: ⁊ per ꝯñs
cum totũ in pncipio ſit vniforme: ſequit φ tũc nõ erit vni
formiter difformis. Similr ſi extremũ intenſius pcedet: ꝗ
erit velocior intẽſio ꝯtinue ad pũctũ mediũ φ ad extre
mũ: ⁊ per in duplo minus tps: ergo nõ in duplo maior la
titudo acquiret extremo φ puncto medio: ſequit ergo φ
nõ vniforʳ difformiter: ergo ꝯclõ falſa. ¶ Iſta tñ ſic argʳ.
Sit.b. vnũ vniforme vel nõ qualificatũ ⁊ inducat in.b.
vniformiter alteratio vniformis: que manens vniformis
cõtinue intendat: ⁊ ſequit φ ad omnẽ punctũ intrinſecũ
b. erit qualitas intenſior φ ſi latitudine acquirenda fieret
vniformiter difforme: vt probatum eſt cõcluſione octaua.
Ponat enim φ ad extremũ.a. cõſimile.b. oino cõtinue ſit
equalis intenſio ſicut ad extremũ.b. ⁊ ad puncta intrinſe
ca.a. ſit tardior alteratio φ ad puncta corñdentia.b. ⁊ ad
oĩa puncta.a. per equale tẽpus alteratio durabit ſicut ad
puncta corñdentia.b. ita φ quelꝫ pars alterãda.a. ꝯtinue
maneat vniformiter difformis: quo poſito alteratio vni
formiter generabit vt notũ eſt: ⁊ quelꝫ pars alteranda.a.
manebit ꝯtinue vniformiter difformis vt ponit in caſu: ⁊
alteratio cõtinue manebit vniformiter difformis: qꝛ nullũ
vniformiter difforme alteratũ põt manere vniformiter
difforme niſi mediante alteratione vniformi vel vnifor
miter difformi: vt pbatum eſt in pncipio de inductiõe gra
dus ſummi cõcluſione ſcḋa ⁊ cõcluſione quarta. Sed iſta
alteratio nõ erit vniformis: vt notum eſt: qꝛ alteratio in.b.
manebit vniformis ⁊ ad extremũ.a. ꝯtinue erit equalis al
teratio ſicut ad extremũ.b. ⁊ ad pũcta intrinſeca.a. remiſ
ſior alteratio φ ad pũcta corñdentia.b. ſequit ergo φ al
teratio.a. cõtinue manebit vniformiter difformis: ergo ſe
quit cõcluſio: caſus pꝫ cũ ꝯcluſione. Sit eniꝫ.a. vniformi
ter difforme terminatũ ad nõ gradum alteratũ latitudine
vniformiter difformi ab octo vſqꝫ ad ſex. Et ponat φ me
diante gradu vt ſex poſſet extremũ intenſius iſti⁹ remitti
ad nõ gradũ in hora ⁊ fiat in ſcḋa hora vniformis remiſ
ſio alterationis ad extremũ ab octo vſqꝫ ad quatuor ⁊ ad
punctũ mediũ vbi nũc eſt vt ſeptem remittat ad quinqꝫ
vniformiter in medietate hore: ⁊ ita ḋ aliis punctis corrñ
dentibus. ſ. φ pportionabilr ſicut alteratio ad iſta puncta
per minus diſtat a ſex: ita per minus tẽpus ad illa remit
tatur alteratio. ⁊ hoc vniformiter ita φ ſex ſit gradus me
dius cuiuſlibet alterationis ad oẽm punctũ deperdende:
quo poſito hic erit vniformis remiſſio alteratiõis: qꝛ ſicut
puncta ſunt ppinquiora extremo remiſſiori: ita per min⁹
diſtant alteratiões ad iª a gradu vt ſex: ⁊ ſi ſic pportiona
biliter ſicut ppinquiora ſunt puncta extremo remiſſiori:
ita per minus tps ad iª remittet alteratio ⁊ poſtφ altera
tio fuerit remiſſa nõ manebit aliqua ibi vt ſuppono: ergo
ſicut eadẽ pũcta ſunt extremo remiſſiori ppinquiora: ita
per minus tps durabit alteratio: ⁊ ſi ſic ſequit φ erit vni
formis remiſſio alterationis ⁊ eductio a toto: ⁊ totum nũc
eſt vniformiter difforme ⁊ fiet nõ qualificatũ ſi nõ indu
cat alia qualitas qḋ ſupponit eſſe verũ: ad oẽm eniꝫ pun
ctum correſpõdebit alteratio gradui vt ſex: qꝛ oĩs motus
qui vniformiter deperdit gradui medio corñdet: ⁊ ſicut
puncta ſunt ppinquiora: ita per minus diſtãt a nõ gradu:
⁊ ſic per minus tẽp⁹ ad iſta durabit alteratio. Cũ ergo ad
extremũ remittet eius qualitas ad nõ gradũ in hora: ſe
quit φ ad oĩa alia puncta ſicut ſunt extremo ppinquiora:
ita in tpe minori remittet qualitas ad nõ gradũ: ⁊ ſic iſta
alteratio ꝯtinue manebit vniformiter difformis extremo
remiſſiori verſus extremũ remiſſius ſubiecti: eo φ nũc eſt
vniformiter difforme extremo remiſſiori verſus extremũ
remiſſius ſubiecti ⁊ vno gradu vniformi remittet vt cõ
ſtat. Et ex hoc ſequitur φ pars alteranda continue ma
nebit vniformiter difformis: quia nunc eſt vniformiter
difformis: ⁊ ſemp alterabit latitudine vniformiter diffor
mi. Ergo ecõtra per inductionẽ vniformẽ alterationis cõ
ſimilis ſicut nũc erit eductio in ſubiectũ vniforme vel nõ
qualificatũ: ita illud ſubiectũ fiet vniforʳ difforme: ⁊ tunc
extremũ remiſſi⁹ pcedet. ¶ Idẽ pbat extremo intenſiori
pcedente. Sit eniꝫ.a. vniforʳ difforme vt pus terminatũ ad
nõ gradũ ⁊ alteret a quatuor vſqꝫ ad ſex: ⁊ ponat φ me
diante gradu vt ſex poſſet extremũ intenſius remitti ad
nõ gradũ in hora ad qḋ extremũ in hora intẽdat altera
tio vniforʳ ab iſto gª vt quatuor vſqꝫ ad octo: ⁊ ſicut pun
cta aª per minus diſtãt a ſummo: ita per min⁹ tps ad iª in
tendat alteratio: ita φ ſex ſit gradus medi⁹ latⁱˢ acqſite:
⁊ ſeqt vt pus φ totũ nũc eſt vniʳ difforme ⁊ fiet nõ quali
ficatũ: ⁊ alteratio manebit vniforʳ difformis ⁊ erit vnifor
mis eductio iſtius alterationis a toto. deductio pꝫ vt pus:
ꝗ ecõtra per vniforme vel nõ qualificatũ poſſet eſſe talis
latⁱˢ inductio vniformis extremo intẽſiori verſus extremũ
remiſſi⁹ ſubiecti: ita φ totum fiat vniʳ difforme ⁊ et quelꝫ ei⁹
pars. ¶ Iõ ꝯcedit ꝯclõ. ⁊ ad arᵐ in oppoᵐ negat ꝯña. ad
extremũ erit ꝯtiᵉ velocior alteratio: ꝗ plus φ dupla latⁱˢ
acqrit. Añs eniꝫ nõ eſt verũ niſi intelligeret qñ ſimul ad

extremũʒ ⁊ ad punctū mediū erit alteratio:⁊ hoc eſt verū. prius tñ erit tardior ad extremū q̄ʒ ad punctū mediuʒ:ita ꝙ tota alteratio catbego^cc ad extremum.a.correſpōdebit eideʒ gradui ſicut tota alteratio ad punctū medium:ſicut in caſu iſto ad oēm punctuʒ corñdebit tota alteratio gradui vt ſex ⁊ ad extremū intenſius vniformiter a quatuor vſqʒ ad octo: ⁊ ad oēm punctū medium a quinqʒ vſqʒ ad ſepteʒ ſicut in via eductionis ad extremū remittet̄ alteratio vniforʳ ab octo vſqʒ ad quatuor: ⁊ ad punctū mediuʒ a ſeptē vſqʒ ad quinqʒ. Conſilr̄ dicit̄ ad argumētuʒ cōcludens ꝙ nō in duplo maior latitudo acquiret̄ extremo q̄ʒ puncto medio negādo ꝯñtiaʒ: qa q̄uis qñ ſimul erit alteratio ad illa puncta, velocior erit alteratio ad punctū mediū q̄ʒ ad extremū: prius tamē velocior erit alterio ad extremuʒ q̄ʒ tunc erit ad punctū mediuʒ: ita ꝙ tota alteratio ad extremū eidem gradui correſpōdebit ſicut ad punctuʒ mediuʒ: ⁊ ſic nō valet argumentū. Si tamē tota alteratio ad extremū eſſet velocior tota alteratiōe ad punctuʒ medium: tunc bene ꝓcederet argumentū: qḋ tñ eſt falſum ⁊

10° reg. repugnās. ¶ Per vniformē generatiōnē alterationis variate ad nō graduʒ terminate per ſubiectuʒ vniforme vel nō qualificatū poterit ſubiectū tale fieri vniforʳ difforme.

3 reg. ¶ Contra illaʒ ſic arguit̄. Si ſic: ſit.a. tale ſubiectum ⁊ ſit ſibi equale oino ⁊ ꝯſimile.b. in qḋ inducat̄ vniforʳ gradus alterationis: ita ꝙ ad extremuʒ.b. tanta latitudo acquirat̄ ſicut ad extremū.a. tunc.b. erit vniforʳ difforme iſta latitudine qualificatū vel tāta ſicut latitudo acquiſita.a. ergo.a. nō erit vniforʳ difforme iſta latitudine. ꝯña arguit̄ ſic. infinite velocior cōtinue erit alteratio ad aliquē punctū.b. q̄ʒ ad punctū correſpōdentē in.a. eo ꝙ in.a. terminabit̄ alteratio ad nō graduʒ: ⁊ ſic ad oia puncta.b. corñdentia per equale tempᵘ durabit alteratio: ergo ad aliquē punctū maior latitudo acquiret̄ q̄ʒ ad punctū correſpōdenteʒ.a. ergo nō erit.a. vniformiter difforme eadeʒ latitudine cū.b. ergo cōcluſio falſa. ¶ Qꝫ tamē iᵃ ſit vera arguit̄ ſic. Sint.a.b. equalia vniformia eodeʒ gradu vel nō qualificata ⁊ inducatur in.b. vnus gradus alterationis nō variate vniforʳ: ⁊ ponat̄ ꝙ qñcūqʒ deuenerit alteratio ad aliquē punctū.b. ꝙ tunc ad punctū correſpōdentē.a. alteratio incipiat intēdi a nō gradu que vniformiter intēdat̄ ab iſto inſtāti vſqʒ in finem tꝑis a nō gradu ad graduʒ dupluʒ ad illum graduʒ qui vniformiter generat̄ per.b. tūc ad oēm punctū.a. correſpōdebit tota alteratio eideʒ gradui ſicut ad punctū correſpōdenteʒ.b. eo ꝙ alteratio.b. erit gradus medius totius latitudinis acquiſite ad punctū correſpōdentem.a. ⁊ ſemꝑ per equale tempᵘ durabit alteratio ad oēm punctū a. ſicut ad punctum correſpōdenteʒ.b. vt ponitur in caſu: ergo ad omnem punctum.b. in fine erit equalis latitudo acquiſita ſicut ad punctum correſpōdentē.b. ⁊ per primā cōcluſioneʒ.b. eſt vniformiter difforme: ⁊.a. nūc eſt cōſile b. ergo.a. nunc erit vniformiter difforme ⁊ erit vniformis generatio alteratiōis per.a. qa per.b. vniformiter generabitur ⁊ ad punctum.a. eque cito preciſe deueniet alteratio ſicut ad punctum correſpōdenteʒ.b. ⁊ etiaʒ alteratio.a. cōtinue terminabit̄ ad nō gradum: quia ſemꝑ incipit eſſe alteratio de nouo ad aliqueʒ punctum: ⁊ quādocūqʒ ad aliquem punctuʒ eius incipiet alteratio, ibi incipiet a nō gradu intendi: ergo ſequit̄ cōcluſio cōcedenda. ¶ Et ad argumentū in oppoſitū negat̄ ꝯña. Infinite velocior continue erit alteratio ad aliqueʒ punctū.b. q̄ʒ ad punctū correſpōdentem.a. ⁊c. ergo ad aliqueʒ punctum.b. maior latitudo acquiret̄ q̄ʒ ad punctum correſpōdenteʒ: qꝛ quiſcūqʒ punctus.a. detur: lʒ ad iſtum in fine remiſſa erit alteratio: ad illum tamē prius erit velocior q̄ʒ ad punctū correſpōdentem.b. ita ꝙ tota alteratio catbego^cc ad oēm punctum.a. eidem gradui correſpōdebit ſicut ad punctum correſpondentem.b. ſicut ſatis pʒ ex caſu. ¶ Per vniformē genera- 11° reg.
tioneʒ alterationis infinite per ſubiectū vniforme vel nō qualificatū fiet illud ſubiectū vniforʳ difforme. ¶ Cōtra illud arguit̄ ſic. Nō extremo remiſſiori precedente: qꝛ tūc ad extremū ſemꝑ eſſet alteratio infinita: ergo infinita latitudo eſſet acquiſita ad illud extremū: ⁊ per cōſequēs totū nō poſſet eſſe tunc vniformiter difforme: nec extremo infinito precedente: qꝛ ſi ſic inducat̄ in.b. cōſimiliter ſicut in a. vnus gradus alteratiōis vniformiter: ita ꝙ.b. ſit vniformiter difforme eadem latitudine qua.b. Cōtra. infinite velocior cōtinue erit alteratio ad aliquē punctū.a. q̄ʒ ad punctum correſpōdenteʒ.b. ergo cuʒ per equale tempᵘ ad oia puncta.a.b. correſpōdentia durabit alteratio: ſequitur ꝙ ad aliquem punctū.a. maior latitudo acquiret̄ q̄ʒ ad punctum correſpōdentē.b. ⁊.b. tunc erit vniformiter difforme latitudie acquiſita.a. ergo.a. nō erit vniformiter difforme. ¶ Sed ꝙ cōcluſio ſit vera arguit̄ ſic. Sint.a. ⁊.b. vniformia vel nō qualificata oino cōſimilia: ⁊ inducat̄ in.b. vnᵘ gradus alterationis vniformiter: ⁊ ponat̄ ꝙ quādocunqʒ alteratio deueniet ad aliqueʒ punctū.b. ꝙ tunc ad punctū correſpōdentē.a. incipiat eſſe alteratio īfinita que vſqʒ in finem tēporis remittat̄ ſic ꝙ correſpōdeat vt deperdatur gradui quo.b. alterabit̄: tunc ſequit̄ cōcluſio. nam ad oēm punctuʒ.a. correſpōdebit alteratio eidem gradui ſicut ad punctū correſpōdentē.b. ⁊ per equale tempᵘ erit alteratio ad omnia puncta correſpōdētia.a.b. ergo ad oēm punctū a. equalis latitudo acquiret̄ ſicut ad punctū correſpōdentem.b. cum ergo.b. tunc ſit vniformiter difforme: ſequitur ꝙ.a. tunc erit vniformiter difforme ⁊ ſemꝑ alteretur alteratione infinita vniformiter generata vt pʒ: ergo ſequitur cōcluſio: ideo cōcluſio eſt cōcedenda. ¶ Et dicit̄ ꝙ lʒ infinite velocior erit ſemꝑ alteratio ad aliqueʒ punctum.a. q̄ʒ ad punctum correſpōdentem: poſt tamē erit tardior alteratio ad omneʒ punctū.a. q̄ʒ ad punctum correſpōdenteʒ b. ita ꝙ tota alteratio ad omnem punctū.a. eidem gradui correſpōdebit ſicut ad punctum correſpōdenteʒ.b. vt pʒ per caſum: ⁊ ſic nō ꝓcedit argumētuʒ factū in oppoſitum cōcluſionis. ¶ Per equeuelocem generationē latitudinis 12° reg.
infinite ⁊ latitudinis ad nō gradum terminate per ſubiecta equalia nō qualificata ⁊ vniformia eodem gradu iſta ſubiecta fient eadem latitudine vel equalia vniformiter difformia. ¶ Contra arguit̄ per argumēta prefata contra duas proximas: ⁊ veritas etiaʒ ex duabᵘ ꝓximis ſatis pʒ.
¶ Per vniformē generationem alterationis infinite per 13° reg.
ſubiectū vniforme fiet illud ſubiectū vniforme. ¶ Cōtra iſtud ſic arguit̄. Si fiet vniforme ſignet̄ gradus quo tunc erit vniforme: ſequitur ꝙ ad extremuʒ verſus qḋ progreditur ſubito acquiretur tota latitudo inter gradum illum ſub quo nunc eſt ⁊ gradum ſub quo erit in fine: quia tunc primo deueniet ibi alteratio: ergo per illud tunc ad omnē punctuʒ intrinſecum erit ante finem infinita alteratio: ſequitur ꝙ ad omnē punctuʒ intrinſecum ſubito tanta latitudo acquiret̄ ⁊ per totum tempus manebit alteratio ad puncta poſtq̄ʒ ad iſta deuenerit: ergo ad omneʒ punctum intrinſecum in fine erit qualitas intenſior q̄ʒ ad extremuʒ verſus qḋ progredit̄ alteratio: ⁊ per cōſequēs totū nō erit vniforme. ¶ In oppoſitū arguit̄ ſic. Sint.a.b. vniformia vel nō qualificata omnino ſimilia ⁊ ꝓgrediatur alteratio vniformiter vel generet̄ in.b. ſic ꝙ ſicut puncta extremo verſus qḋ progreditur alteratio illi extremo ſunt propinquiora: ita velocior ad illa puncta maneat vniformis alteratio ſicut ad extremuʒ a quo incipit tunc eſſe progreſſio ſit in duplo tardior alteratio per totuʒ tempus q̄ʒ ad punctum medium per medietatem temporis ⁊ in quadru-

plo tardioꝛ ꝙ̄ ad punctū terminantē tres quartas verſus
extremū verſus qꝺ ꝓgredit̄ alteratio ⁊ ſic in infinituz. Et
ponat̄ ꝙ quācūqꝫ deueniet alteratio ad aliquē punctuz.b.
incipiat ꝓnunc eſſe alteratio infinita ad punctū corriden/
tem.a.⁊ ꝯtinue vſqꝫ in finē tꝑis remittat̄: ita ꝙ vt deꝑdit̄
correſpōdeat gradui extēſo ad punctū corridentē.b.quo
poſito ſequit̄ ꝙ in.a.b.vniformia vel non qualificata erit
vniformis gnātio latitudinis alterationis in.a. latitudinis
infinite ⁊ vtrūqꝫ in fine erit vniforme:qꝛ proportionabilr
ſicut puncta ſunt ꝓpinquioꝛa extremo.b.verſus qꝺ ꝓgre/
ditur alteratio:ita ad iſta per minus tempus durabit alte/
ratio:⁊ ita gradui intēſiori corridebit:ergo ad oīa puncta
b.equalis latitudo acquiret̄.cum ergo totū nūc ſit vnifor/
me vel nō qualificatū:ſequit̄ ꝙ in fine erit ipm̄ vniforme
⁊ ad oēm punctū.a.equalis latitudo acquiret̄ ſicut ad pun
ctum corridentez.b.eo ꝙ ad oēm punctū.a. per eq̄le tꝑs
durabit alteratio ſicut ad punctū corridentē.b. eidez gra/
dui ad puncta corridentia alterātibꝰ coꝛpoꝛibꝰ illis: ergo
in fine erit.a.vniforme: qꝺ fuit ꝓbāduz. ¶ Pro iſto ergo
cōceꝰ ꝯne:⁊ ad argumētū in oppoſitū cōcedo ꝙ ſubito
ad vnū extremū acqret̄ tota latitudo que eſt inter gradūz
nͤ habitū vel nō graduz:⁊ gradū hrīdum in fine. Et negat̄
ꝯña q̄ñ vlterius cōcludit̄ ꝙ eadez rōne ad oēm aliū pun/
ctum tanta latitudo acqret̄:qꝛ ad iſtuz erit infinita altera/
tio.nō.n.erit ſubito tanta latitudo acq̄ſita ad extremū:q̄a
ibi erit alteratio infinita:ſed qꝛ ad illum punctū īmediate
ante finez deperdet̄ latitudo alterationis infinito gradui
correſpōdens:ſed ad quēlz aliuz punctū tota latitudo de/
perdita ſoluz finito gradui correſpōdebit:vt ꝓbatū eſt in
cōcluſione ⁊ poſitum in caſu. Si tn̄ exiſtentia alterationis
infinite ad punctū aliquē foret cauſa ſubite inductionis la
titudinis bene ꝓcederet argumētū:hoc tn̄ nūc eſt negatū.
¶ Per hoc pōt ꝓbari ꝙ per generationē gradus vnifoꝛ/
mis ⁊ latitudinis difformis tam ad nō graduz ꝙ̄ etiaz ad
graduz finitū:⁊ etiā ad gradū infinitū terminatū per vni/
formiter difforme poterit iſtud ſubiectuz fieri vniforme:
ſeu etiā manere in fine vniformiter difforme: ⁊ eadē argu
menta ſunt faciēda in illis ſicut in ꝓpoſitis. Itē quaſi oēs
cōcluſiones que demōſtrant̄ in materia de inductiōe gra
dus ſummi:poſſunt etiaz ꝓbari de generatiōe latitudinis
ſeu alterationis vniformis per partē ante partez ſubiecti:
eo ꝙ inductio gradus ſummi erit inductio partibilis illiꝰ
alterationis a tali ſubiecto.hec ergo pro tali materia ſuffi/

Nō ꝙ hic vr̄ termina/ri tractatū magiſtri ⁊ ſubſequen tes due cō cluſiones vr̄ addi/ te ab alio.

cient ſi bene ſint ꝓpoſita intellecta. ¶ Per.a.ꝯtinue velo
cius inducet̄ gradus ſummꝰ ꝙ̄ in.b.⁊ in.b.vnifoꝛr inducē/
tur:⁊ ſi alteratio.a.in aliqua ꝓportione velocius ⁊ velociꝰ
per totum remittet̄ ꝙ̄ nunc remitteret̄ infinite tardius in
eodez tꝑe inducet̄ gradus ſummꝰ in.a.ꝙ̄ in.b. exquo ſeq/
tur ꝙ in.a.infinite velociter inducet̄ eius alteratio. Si per
totum in aliqua ꝓportione velocius remitteret̄ ꝙ̄ nūc re/
mittetur:infinite tarde in eodez tꝑe inducet̄ gradus ſum/
mus in.a.ꝙ̄ in.b. exquo ſequit̄ ꝙ in.a.īfinite velociter in/
ducet̄ eius alteratio ſi per totuz in aliqua ꝓportione velo
cius remitteret̄ ꝙ̄ nūc remittet̄:infinite tarde īducet̄ gra/
dus ſummus in.a. ¶ Contra iſtas arguit̄. Si velocius in/
ducet̄ cōtinue in.a.ꝙ̄ in.b.⁊ in.b.vnifoꝛr ſit.c. gradus quo
inducit̄ gradus ſummꝰ in.b. Et arguit̄ ſic. gradu intēſiori
ꝙ̄ eſt.c.ꝯtinue inducet̄ gradus ſummꝰ in.a. cū iſta remiſ/
ſione alterationis:cum ergo aliquo gradu aliqualr veloci/
ter inducet̄ gradus ſummꝰ in.a. ⁊ aliquo gradu in duplo
tardius:⁊ ſic in īfinitū:ergo alteratio in.a.pōt remitti velo
cius ꝙ̄ nūc remittet̄:⁊ꝫ hoc ꝙ ſolum finite tardius indu/
cetur gradus ſummus in ipſuz ꝙ̄ nūc inducet̄ in ipſuz cū
iſta remiſſione alterationis.ꝯña tenet: qꝛ vſqꝫ ad finē poſ/
ſet ad oēm punctū eſſe gradus alterationis ſoluz finite re/
miſſioꝛ ꝙ̄ nunc erit ad eundez:ergo vtraqꝫ cōcluſio falſa.
hoc enim argumentū foꝛtius vadit cōtra cōcluſionē grad
⁊ cōtra quartā. ¶ Ille tamē cōcluſiones ſic arguūt̄. Sint
enim.a.⁊.b.duo vniformiter difformia eadem latitudine
terminata ad ſummū per que extēdant̄ certi gradus alte/
rationis:quo gradu poſſent fieri ſumma in hoꝛa:⁊ ſit.a.du
plum ad.b.⁊ ponat̄ ꝙ per alterationē.a.extendat̄ vnifoꝛ/
miter vna latitudo remiſſionis terminata ad nō gradum
verſus extremū remiſſius.a.⁊ in alio extremo terminetur
ad talem certū gradum quo pōt alteratio in.a.ad alterum
extremū remitti ad nō graduz in hoꝛa:⁊ extendat̄ tota la/
titudo alterationis cū latitudine remiſſionis per partē.a.
ſm̄ ſe totam remiſſaz:⁊ maneat alteratio in.b. nō mutata
intenſione per partez.b.ſm̄ ſe totam remiſſaz: ⁊ nō inten/
dantur.a.b.in qualitate:quo poſito ad omnē punctū.b.in/
trinſecuz citius deueniet gradus ſummꝰ ꝙ̄ ad punctū coꝛ/
reſpondentē.a.oīa eniz puncta.a.b. correſpōdentia equa/
liter diſtantia a ſummo: ⁊ ad omnē punctuz intrinſecum.b.
ſemꝑ erit alteratio velocioꝛ ꝙ̄ ad punctū correſpondentē
a.vt pꝫ:⁊ per ꝯñs pars ſm̄ ſe totam remiſſa.a.cōtinue erit
plus ꝙ̄ dupla ad partez ſm̄ ſe totā remiſſaz.b. ꝯña pꝫ:cū
ergo equecito fient.a.b.ſumma:ſequit̄ ꝙ pro omni tēpoꝛe
terminato ad finez gradui plus ꝙ̄ duplo intenſioꝛi corri/
debit inductio gradus ſummi in.a.ꝙ̄ in.b. ergo per aliqꝺ
tempus terminatū ad finem plus ꝙ̄ in duplo velocius in/
ducetur gradus ſummꝰ in.a.ꝙ̄ in.b. Añs pꝫ:quia extrema
remiſſioꝛa.a.b.equecito fient ſumma:exquo ad iſta extre/
ma continue erit equalis alteratio: ⁊ vtrūqꝫ equecito fiet
ſummū ſicut extremuz eius remiſſius: ergo ⁊c̄. Añs pꝫ de
b.⁊ idem arguit̄ de.a.qꝛ pars alteranda.a. cōtinue altera/
bitur latitudine vniformiter difformi:ergo ſemꝑ erit vni/
formiter difformis:⁊ ꝯtinue terminabit̄ tota eius pars re/
miſſa ad ſummū:⁊ alterabit̄ ꝯtinue latitudine terminata
ad duos gradus vt pꝫ:qꝛ primo in fine remittet̄ alteratio
ad nō gradū ſm̄ alterū eius extremū:ergo nō tardius de/
ueniet gradus ſummꝰ ad puncta intrinſeca ꝙ̄ ad extremū
remiſſius:pꝫ ergo prima pars cōcluſionis ⁊c̄.

¶ Explicit Calculationum opus aureū magiſtri Raymū/
di Suiſeth anglici viri in hac facultate eminētiſſimi atqꝫ
acutiſſimi:nuper diligenti examine emendatum ab excel/
lenti doctoꝛe domino Uictoꝛe trincauello veneto.

¶ Victoris Trincauelli Veneti queſtio de reactione iuxta doctrinã Ariſ. ⁊ Auer. Cõmen.

CIrca 3m phyco librũ maxime in tex. cõ. 8. q̃ſtio admodũ difficilis ſolita eſt moueri: que ꝑ ẽt de gña. circa. t. cõ. 53. ⁊. 54. a Modernis ſolẽt ꝑſcrutari: q̃ talis eſt. Nũqd oẽ agẽs nãle dũ agit in paſſuz repatiaẽ ab ipo paſſo: ita vt fugere nõ poſſit qn paſſuz etiã aliq̃ modo in ipm nõ agat. res difficilis valde dñs ad vtrãq3 ptẽ magnos fautores ⁊ fortes rõnes: q̃ lz innumere hincinde ab auctorib9 diuerſis afferranẽ: nos tñ nimiã ꝓlixitatẽ fugiẽtes eas tãtus adducemus, que nobis tãgere videnẽ pũctũ ⁊ ſubam difficultatis. Et p̃mo ponem9 argta ꝓbãtia reactionẽ eẽ impoſſibilez. deinde ea que partẽ oppoſitam cõprobãt.

¶ Qz igiẽ impoſſis ſit reactio in agẽtib9 ⁊ paſſis, p̃ro rõ ẽ hec: ſit ita, qd aliqd agẽs in paſſuz aliqd agat: vtputa. a. i. b. qd a. dũ agit, ab ipo ẽt. b. paſſo repatiaẽ. tũc q̃ro vtrũ po vtriuſq3 tã agẽtis q̃3 paſſi ſit eq̃lis, vl' ineq̃lis: nõ eſt dõm q ſit eq̃lis: qa a ꝓpoẽ eq̃litatis nõ ꝓuenit actio: vt accipi põt a Com. 4° phy. cõ. 71. vbi dicit q actio ſp ꝓuenit ex victoria motoris ſupra paſſuz. eãdẽ ẽt ſniaz ꝓhs expſſe ponit in libello de motib9 aialiũ: hec ẽt tanq̃3 pn°: vtiẽ ꝓhs 8° phyſi. plib9 in locis. ſi vo ſunt ineq̃les po. a. ⁊ po. b. tũc debilius nõ agit in fortius aliq̃ modo. ſed tãtuz fortius in debilius: ſi. n. equale non põt agere ineq̃le, multo minus debilius in id qd eſt fortius: a ꝓportione. n. minoris inequalitatis nõ ꝓuenit actio. Et hoc argm a Burl. ponitur hic.

¶ 2a ratio B idẽ ꝓbãs eſt Calcutoris admodũ diffilis circa quã poſtei oẽs laborauerũt. data reactione iter agẽs ⁊ patiẽs vnũ abſurdũ ſeq̃reẽ: q. ſ. duo 9ria ſil' ⁊ ſel' in eadẽ pte ſubi intẽderenẽ, qd oino ipoſe eſt: ⁊ pbic pnio repugnãs: lz qdã ex medicis forſitã B nõ hẽnt pro icõuenieti. Qz aũt B ſeq̃ẽ facillime pt ꝓbari: ſit eiz. a. q in. b. agit: ⁊ a. b. ẽt repatiaẽ: ⁊ ſupponaẽ: q lz. a. p totuz. b. agat: ipm tñ. b. nõ poſſit ſuã actionẽ p totũ. a. diffundẽ: ſz ſolũ talis reactio fiat per medietates ipi9. a. ex q̃ eiz. a. eſt potẽtioꝛ. b. poterit ad maiorẽ diſtãtiaz agẽ q̃3. b. q̃re pars ipi9. a. q̃ patiẽ ab ipſo. b. appelleẽ. c. B ſuppoito deducit q in. c. pte ipi9. a. ſil' introducenẽ: ⁊ itẽdenẽ duo 9ria: vtputa calitas ⁊ frigitas: qd deducit B mõ: ſit. a. ignis q p calitez in. b. aquã agat: ⁊ p fritez ab ea patiaẽ: tũc maniim eſt q. c. ps ipſi9. a. patiẽ p frites a. b. ⁊ idẽ ẽt. c. ab alijs ptib9 ipi9. a. q̃ ab ipo. b. nõ repatiunẽ calefit: qd ꝓbaẽ: qa ex q̃ alie ptes. a. ſunt in ſua calitate: ⁊ in. c. eſt fritas a. b. inducta erit iter. c. ⁊ alias ptes. a. 9rietas: ſz vbi eſt 9rietas ibi actio ⁊ paſſio: q̃re alie ptes. a. agẽt in. c. p caliditatẽ: ⁊. b. ex alia pte per friditatez: q̃re ſil' ⁊ ſemel calefiet. c. ⁊ ifrigidabiẽ: qd eſt penit9 ipoſſibile ⁊ 9tra pbic pna: vt pz.

¶ Ad B ẽt incõueniẽs deducũt moderni alio mo: ſit ita q iter agẽs ⁊ paſſũ ſit aliqd mem ſic ſi eẽnt duo corpa ſolida vt ferrũ ignitũ ⁊ glacies que nõ pñt ſe tãgẽ imeate: vt docet Ari. 2° de aia. tex. cõ. 113. ſz neceſſe eſt vt iter ea mediet aer aut aqua: tũc ſi ferrũ calefacit glaciez: quero vtrũ a glacie ifrigideẽ: vl' nõ: ſi nõ refrigeraẽ: g̃ nõ reagit: q̃re eſt ipoſſis reactio: ſi reagit ⁊ refrigerat ferrũ: cũ calefactio a ferro et ifrigiatio a glacie nõ ꝓcedãt niſi p aerẽ mem: g̃ aer medi9 ſil' ⁊ ſel' ifridaẽ ⁊ calefit: qd vt dixim9 ex toto ẽ abſurm ⁊ ipoſe.

¶ 4m argm ad B idẽ 9ſirmãs eſt B: 9ceſſa reactiõe vĩ ſeq vnuz qd oino repugñt phycis pnijs. ſ. nullũ agẽs poſſe pfcẽ aſſilare ſibi paſſum: ⁊ ad eũdẽ gm reducẽ in q̃ ipm eſt. Qz aũt B ſeq̃ẽ facile põt ꝓbari: q2 ſi aliqd calidũ ſũme velit ſubm frigm ſibi aſſilare, ſit ſũme calm vt octo: ⁊ ſit illd qd itẽdit aſſilare frigm vt. 6. tũc ſi p te calz dz frigm aſſilare ſil' a frido patiẽ: q̃re ei9 calitas remittiẽ ⁊ efficiẽ. v. g. calm vt. 7. tũ q̃ro qd õducet id qd frigm eſt ad calitez vt octo nõ tale agẽs qd erat ſũme calz: q2 p ſuppm iaz eſt effcm calz vt. 7. ſz calz vt 7. nõ põt ꝑducere ad calitatẽ vt. 8. q2 nihil agit vltra propriũ gm: tũc. n. ſile in ſile ageret ⁊ min9 in maius vt appꝫ: q̃re nullũ agẽs ad eũdez gm deducet paſſum in quo ipz eſt. multa etiaz alia ⁊ inumera fere argta pro hac pte ſolent afferri q̃ breuitatis cã dimittãẽ: hec. n. ſũt que pũctũ hui9 rei tangũt ⁊ ex ſolõne hoꝝ facile alia oia ſoluenẽ.

AD oppoſitã aũt ptẽ multa ẽt afferunẽ. P̃rio ſenſus ipſe q B mãifeſte teſtaẽ: ⁊ experientie multe. 9riãtib9 aũt ſenſui ⁊ rõne dimittẽda eſt rõ ⁊ ſenſui eſt adherẽdũ: vt eſt ſnia Ari. ⁊ Auic. rõ. n. que ſenſui 9dicit ſophiſtica eſt ⁊ vana. ¶ Scdo: auctes inumẽ Ariſt. Com. ſz maxie in lib. phy. 3°. ⁊ p de gña. t. cõ. 33. ⁊. 4. ⁊. 87. ⁊ Themi. ⁊ Alex. ⁊ alioꝝ oiuz peripatecorum manifeſtiſſime huic pti fauẽtiũ. ¶ Rõnes ẽt mlte iter quas potiſſi9 eſt hec: q2 ablata reactiõe auferẽ mixtio pfecta: qd ẽ pbic. ⁊ Ax. 9riũ de his tñ inferi9 longius agem9: in pñti hec ſufficiãt.

¶ Mã difficilis eſt valde qd ex eo maxie põt eẽ ꝑſpicuũ: q2 inumẽ in ea opiones repiunẽ iter auctores poſteriores: antiq. n. in hac re nõ multũ laborauerũt: ſz vnũ aduertẽdũ eſt ne ſim9 in equoco q nũc loqmur de actiõe que in vero motu fundaẽ. dimittim9. n. actiões pfectiuas ⁊ eas q̃ fiunt in iſtãti ſic illuminatio ⁊ ſilia ⁊ de mãli tãtũ actiõe ⁊ agente mãli loqmur qd cũ paſſo cõicat in mã, de q̃ eſt Ari. ſermo.

¶ Qui de hac re locuti ſunt biparriti fuerũt: qdã. n. ex toto reactionẽ negauerũt volentes fugẽ maxias difficultates q̃ angũt eos q hõ reactiões õfendere volũt: ⁊ iter alias ipoꝝ rõnes hec fortioꝛ eſt: q2 ſi agẽs eſt tãte vtutis vt poſſit totũ paſſuz alterare ⁊ ꝓpa q̃litate ꝑuare multo magis poterit ſeipſz a vtute paſſi defendere ⁊ 9ſuare: difficili9. n. vĩ poſſe aliũ offendere q̃3 ſeipſz defendere. ¶ Ad ea vo q̃ pro ipſa reactiõe ſũt adducta. rñdẽt p̃mo auctes Ari. ⁊ Com. exponẽtes dicũt: q p reactionẽ Ari. ⁊ alij nõ itellexerũt q paſſuz poſſit in agẽs agere. hoc. n. ipoſe eſt: cũ potẽti9 ⁊ fortius ſit agẽs patiẽte. ſz itellexerũt reactionẽ ꝑuatiue qd idez eſt cũ reſtcia: paſſuz. n. q̃tũ põt reſiſtit ⁊ nitiẽ ꝓhibẽ actiõez agẽtis. ⁊ B voluerũt Ari. ⁊ alij auctores antiqores. ¶ Ad rõnẽ ẽt rñdẽt q miſcibilia nõ reducũẽ ad tẽperiẽ rõne mutue actiõis, ⁊ reactiõis q̃ eſt iter ipſa: ſz ab ipo generãte ⁊ a virtute ſupioꝛi ipſi9 celi. Experientias ẽt 9rias varie ſoluũt q̃ ne nimiũ longi ſimus nũc dimittim9: ſi. n. recte ꝑpendant ⁊ coꝝ expõnes manifeſte videbiẽ q textũ corrũpãt: ⁊ de his inferi9 aliqd dicemus: ad magis. n. neceſſaria nũc ꝓperamus: de his. n. oĩb9 nobis eſt poſterius habẽdus ſermo. — p° opio

¶ Alij aũt reactionẽ oio cõceſſerũt: maioꝛ. ſ. ps coꝝ q ꝑipatheticã Ari. doctrinã ꝓfeſſi ſunt: q lz in hoc 9uenerit. ſ. neceſſariã eẽ reactionẽ poſitiuaz in reb9 nãlib9: in mõ tñ ſaluandi talez reactionẽ: ⁊ cã ponẽdi: ⁊ fugiẽdi difficultates ipſaz vndiq3 circũſtãtes diuerſiſſimi fuerũt: ⁊ lz inumere circa B fere opiones repianẽ: nos tñ eas tñ attingem9 que ꝓbabiliores ſunt viſe: nimiũ. n. tpis 9tereremus ſi oẽs iſeq vellemus: ⁊ eſſet magis cã 9fuſionis q̃3 doctrine.

PRim9 itaq3 modus quẽ examiaturi ſum9, eſt Suiſeth calcutoris q max9 eſt hic9 honore multis iã annis: ⁊ qa q̃ſto magis poſſum9 breuitati ſtudem9: iõ ſummatiz vniuerſaz ei9 põnẽ in duas ptes reducem9. Ubi ẽ aduertenduz q ſicut duplex repeiẽ modus q̃litatũ a quib9 põt actio vera ⁊ mot9 ꝓuenire: ita ẽt dupl'r de reactiõe loquẽduz vĩ. quedaz. n. ſunt q̃litates que motui locali deſeruiũt quedaz vo que alterationi: ⁊ ſic iſte q̃litates ſũt diuerſe, ita etiã eſt diuerſa rõ actionis, ⁊ reactiõis in ipſis. ¶ Primo igiẽ de motu locali loquẽdo ſic ait Calculatoꝛ: poſe eſt in motu locali fieri reactionẽ: ita q ſi. a. agat in. b. eodẽ mõ. b. reagat in ipm. a. nõ qdez alterãdo: ſed ſolũ ſm motũ localez. hoc vo Calcula. q̃ſi ex expiẽtia notũ relinqt: manifeſtũ enĩz eſt q ſi duo gladij 9tra ſeinuicẽ moti occurrãt: ambo — Calcutor

bebetanť:ſilr duo vaſa fictilia vel vitrea ſepe ꝯtra ſe iniicē
lata:ambo frāgūtur:nec aliqđ repiť argm (dicit ipſe Cal/
culator) qđ in hac ꝯcluſione faciat difficultatem.
¶ Si loquimur aūt in altere:cū actio ꝛ paſſio fiāt rōne ꝯrie/
tatis:paſſuꝫ ꝛ agēs pñt dupr ſe hēc.vl.n.ꝯriant ſm ambas
vtriuſqꝫ q̄litates.ſ.actiuas ꝛ paſſiuas vt ignis aq̄:vel ſm vnā
tm̄ ꝯrietatē:vt ignis aeri.ſi agens ꝛ paſſuꝫ ſunt ꝯria in am/
bab9 q̄litatibꝫ:tūc dicit Calcul.ſine dub9 pōt eē iter ipſa actio
ꝛ reactio:nō tn̄ ſm eādē ꝯrietatē ꝛ eaſdē q̄litates:ſꝫ ſm diuer
ſas:vtputa ſi ignis agit in aquā p caliditatē ſilr pōt aq̄ in igneꝫ
agere p huiditatē:nō aūt p frigiditatē:pōt.n.aq̄ ita vincē ignē p
humiditatē ſicut ab eo p caliditatē vincitť:nec aliqđ arm in ꝯriū hu9
nr̄e ꝯnis repiť dicit ipſe.Imo ſicut gdā ex Moder.ꝯfirmāt
in hāc penit9 ſniaꝫ deſcēdē vr̄ Com.4° metheor.cō.2.vbi
vr̄ velle hac rōne mixtionē fieri:ꝛ nō alia niſi qꝛ elr̄ta ſunt
in ſuis q̄libꝫ nō eque po9 vt ibi videri pōt.Calculator tn̄ hic di
cit.ꝉ in elr̄tis puris eē ipoſſe:vt.ſ.ꝯriāť ſm vnā q̄litatē ꝛ ſm
aliā vincanť:ſꝫ in mixtis ſolū hāc locū.¶ Si aūt de agēte
ꝛ paſſo loquimur q̄ vna tm̄ ꝯrietate ꝯriant:vt ꝯriet in acti/
uis tm̄:vl in paſſiuis tm̄:adhuc pōt ꝉ 2r imaginari:vel.n.
ambo ſunt ſm oēs ſuas ptes ꝯſilia ꝛ eiuſdē rōnis:taꝫ ſm
gradū q̄ ſm multitudinē forme:q̄ ēt ſm oīa alia que pñt augere vl
diminuē potentiā agētis vl patiētis:vl ſunt diſſilia in ptibꝫ.ſi
gdē ſint diſſilia ſm eoꝝ ptes:ſic iter ipa pōt eē actio ꝛ re/
actio ſm eaſdē q̄litates ꝛ eādē ꝯrietatē:ſꝫ ſm diuerſas ptes:
ſi eiꝫ ſit.a.hñs diſſormes ptes in calitate pōt vna ei9 pars p calitatē
agere in.b.ꝛ p aliā pati p frigiditatē ab ipo.b.vt manifeſtū eſt:res
hec clara vr̄ ꝛ per ſe nota.¶ Si ſint aūt tā agēs q̄ paſſuꝫ
ex toto vniformia:ꝛ ptes ꝯſiles oēs habētia:tūc dicit Calcul.
ipoſſe eſt ſm eādē ꝯrietatē eadē reactionē:loqndo de vera
ꝛ poſitiua reactiōe:que duos ꝯrios mot9 poſitiuos icludit:
vtputa ſi ignis agit in aquā calefaciēdo ipſam/ꝙ ab ea ſilr
ipe frigefiat.Oꝫ aūt ꝉ verū duab9 vtiť rōnibꝫ.Pria ē hec:
qꝛ tūc a ppor̄e minoris ineq̄litatis pueniret actio vel a ppor̄e
eq̄litatis.Hāc ꝯñtiā facile poſſum9 deducē vno ſuppoſito
qđ ipe ꝯ multos imo plres ex modernis auctoribꝫ nitiť p/
bare.ſ.vnūqđqꝫ tātū eē reſiſtitiuū q̄tū eſt actiuū:cui9 rō/
nes in pñti dimittem9:qꝛ forſitan de his alias loquemur.
Scđa vo ei9 rō per quā negat reactionē ſm eādē ꝯrietatē:
eſt illa quaꝫ a pñ9 tetigim9:qꝛ data tali reactione ſequereť
in eodē ſubto ſimul imēdi duos mot9 ꝯrios:qđ eſt ipoſſe.
¶ Si aūt q̄reret aliqs/vr̄ eſt ꝙ in actiōe q̄ fit p motū loca
lē pōt paſſum reagē in ipm agēs:ſicut ſi duo corpa rara ꝯ ſe
inuiceꝫ feranť vtrūqꝫ ꝯdēſať:duo vaſa vtrūqꝫ frāgiť:duo
gladij ſilr hebetanť.In alteratione vo que fit ſm q̄litates actiuas
vel paſſiuas ſi aliqđ patiť nō pōt in ipm agēs reagē.Ri/
dēdū eſt iuxta Calculatorē ꝙ rō diuerſitatis eſt hec:qꝛ in motu
alteratiuo nō ſolū alterāti reſiſtūt ptes ad q̄s puenit alteratio:
ſꝫ ēt alie ad q̄s nō puenit alteratio:oēs.n.reſiſtūt ipi agēti:ꝛ
appetūt ꝛ conanť ſibi aſſilare illas ptes ad q̄s alteratio pue
nit.vn̄ ſi ignis in aquā agit ꝛ eſt aq̄ potētior/aqua nō pōt
agē in ignē:qꝛ nō ſoluꝫ aq̄ reſiſtūt ptes ignis q̄ ſunt ppinq̄
ipſi aque:ſꝫ etiā remote:ꝛ ideo maior eſt ignis reſiſtentia q̄ po9
aq̄.In diuiſione vo nō eſt ꝉ:ꝛ in motu locali:nō.n.reſiſtūt
niſi ptes ille ad q̄s puenit mot9 aliqs localis:ille aūt ptes
ad q̄s nō ptingit localis mot9,nihil reſiſtūt:in ꝯdēſatōe.n.
tm̄ ille ptes reſiſtūt ꝯdēſanti que ꝯdenſanť:in diuiſione ēt
tm̄ ille ptes ad q̄s diuiſio puenit reſiſtūt diuidenti:alie vo
nō.ſi.n.alie reſiſterēt/ꝉ eēt:qꝛ vl mouerenť motu ꝯrio ipi
diuidēti:vl qꝛ niterenť ptes diuiſas inicē ꝯtinuare:qđ fal/
ſuꝫ tn̄ eſt:ꝛ inde eſt ꝙ vtrūqꝫ pōt hēe ppor̄eꝫ maioris ineq̄/
litatis ſupra reſiſtentiā alteri9:cū in vtroqꝫ nō reſiſtāt niſi ptes
quedā ad quas puenit mot9.in alteratione vo nō:ex eo ꝙ
etiā ptes que nō alteranť reſiſtūt:vt declarat Calculator.

ꝯ Calcu latores. ¶ Hec eſt ſūma opīonis Calcul.circa mā̄ꝫ de reactiōe q̄ lꝫ
ingenioſa ſit:mihi tn̄ ꝛ dubia valde ꝛ ex toto Ari.ꝛ antiqs

pipatheticis vr̄ ꝯria:ꝛ ne cōfuſe pcedamus:dimiſſa ea difficultate
que pōt eē circa pmā ptē.ſ.de actiōe que fit p motū localē:
de ea.n.abūde a rectoribꝫ diſputatū eſt.vnū tn̄ circa illud
dicā:ꝙ meo iudicio:ſi de vero motu locali ſimplici ſit no/
bis ſmo:qui maxie repiť in elr̄tis eedē fere oēs dubitatiōes eā
ſequūtur ꝯñē ſi in illis vitatē hēe gs dicat que angūt ſeqn/
tē ptē qōnis.ſi.n.ſit in vno vaſe.v.g.ignis ꝛ terra ita vt vin
cat ignis ꝛ ſua leuitate trahat ſecuꝫ terrā ſi terra reagit in
tali motu:eadē ſequenť incōueniētia:que ꝯſequunť tenētē
dari reactionē ſm eaſdē q̄litates actiuas:vt facile poſſet oſtē
di.Sed nūc his dimiſſis vt dixi:qꝛ in poſterum pte qōnis de
hac re aliqđ tāgem9.Uenio ad 2ꝫ ptē qōnis que de q̄litatibꝫ
alteratiuis eſt.circa quā duo ſunt dicta a Calcul.que mihi
falſa videnť ꝛ ꝯria Ari.Pri9 eſt ꝙ iter elr̄ta pura nō pōt
eē reactio ſm q̄litates diuerſas:vt ſi ignis aq̄ approximeť:ꝛ
agat in ipaꝫ p caliditatē ab ipa per humiditatē nō pōt repati.hec
mihi ꝛ rōni ꝛ Ari.videnť ꝯria.Scđm vo eſt ꝙ ſi totū agēs
ſit homogeneū ꝛ totū paſſuꝫ homogeneū ſm eādē ꝯrieta/
teꝫ nō pōt eē reactio:ita vt aliqđ ſilr p caliditatē agat ꝛ patiať
ab eodē p frigiditatē:ꝉ ēt ex toto vr̄ ꝯriuꝫ doctrine pipatheticē.
¶ Oꝫ igiť pmū Calculatoris dictū nō ſit rōni ꝛ pñ9 pipatheticis ꝯſonū
facile pōt oñdi.ꝛ lꝫ ad ꝉ poſſint plres rōnes afferri:nos tn̄
duabꝫ tm̄ erimus ꝯtenti tractis ex fundamento Ari.2° de gña.
pª aūt hi.t.cō.27.vbi Phs de trāſmutatione elr̄toꝝ loqns ait:
ꝙ nō ſolū elr̄ta pñt iter ſe trāſmutari,ita vt vnū in alteruꝫ
ꝯuertať.v.g.ignis in aerē vel eꝯ:ſꝫ etiā aliqn̄ accidit vt ex
duobꝫ gñeť vnū 3m elr̄tū ab vtriſqꝫ diſtinctū:vtputa ex igne
ꝛ aq̄ pōt gñari terra vel aer:ꝉ tn̄ vt ēt Auer.ibideꝫ aſſerit
nō ꝯtingit niſi ex actione duoꝝ elr̄toꝝ totalr:ꝛ ſm ambas
q̄litates oppoſitas:ſi.n.in igne gdē ſiccitas corrūpať:in aqua vo
frigiditas ſiet ex eis aer:ſi vo eꝯ ſiet terra.ꝉ aūt eēt ipoſſe ſi ve/
rū eēt Calcul.dictū:nō poſſe ſimpr elr̄tū ſm vnā q̄litatē ſuaꝝ
vincē ꝛ agere ſm alteraꝫ vo pati ꝛ vinci.ſi.n.ex igne ꝛ aq̄
dꝫ gñari aer/opꝫ vt ignis vincat aquā in calitate:ꝛ per ſic/
citatē ab ipſa vincať vt ex dictis Ariſ.ſatis pōt eē clarū.
¶ 2ª aūt ratio que ad ꝉ adduci pōt innitiť altero fundamento ex
eodē libꝫ accepto:vult.n.Ari.eodē 2°t.cō.23.ꝙ lꝫ vnicuiqꝫ
elr̄to due attribuanť q̄litates pª:nō tn̄ ꝉ ſit eque pª:vnūqđqꝫ.n.
elr̄toꝝ ex eis vnā ſibi pº determinat tanq̄ eius pmā ꝛ magis
pportionatā iſtrm:vn̄ ignis dr̄ pº calidus aer pº humidus:aq̄ pº frigida:ter
ra pº ſicca:vn̄ dicit Ari.ꝙ vnūqđqꝫ iſtoꝝ elr̄toꝝ dr̄ ſimplr
vni9 q̄litatis:vn̄ terra magis ſicci q̄ frigidi:aq̄ aūt magis frigidi
q̄ humidi ꝛc.Sit g̊ ꝉ pmū fundamentū.ſ.qđlꝫ elr̄tū pº determinare
ſibi vnā q̄litateꝫ tanq̄ inſtrm magis ipi pportionatū ꝛ pñs.2m
fundamentū ſupponēdū tale eſt:ceteris paribꝫ agēs ſp eſt forti9
in agēdo qn̄ agit mediante inſtrō ſibi maxime pportionato ꝛ pñs
q̄ qn̄ agit mediante iſtrō ſcđario ꝛ quaſi(vt ita dicā)accñtali.
ꝉ vr̄ luce clari9 ꝛ expientia pōt cōprehēdi tā in nālibꝫ q̄ arti/
ficialibꝫ.Ex his igiť ſeqē ſtatim/elr̄ta nō eē eq̄lr po9 in agē
do ſm vtrāqꝫ q̄litatē:imo ſp ceteris paribꝫ forti9 agūt p q̄li/
tatē ipis pº attributā q̄ p illaꝫ que ſcđario ipſis ꝯuenit:ꝛ ꝉ
ꝯceſſo.ſ.elr̄tuꝫ ſimpr eē potētius ſm vnā q̄litatē:debili9 vo
ſm alterā/nullū vr̄ ipoſſe neqꝫ icōueniēs ꝯcedē aliqđ elr̄tū
ſm vnā q̄litatē agere ꝛ vincere:ſm alterā vo vinci ꝛ pati:
qđ tn̄ negat Calculator in trac.de reactione in reſpōſione
ad pmā rōnem pbātem reactionē eſſe poſſibilem.Et hec
ſufficiāt quātum ad pmum Calculatoris dictum.
¶ 2m etiā dictū Calcul.nō minores iſtātias recipit:ſunt.n.ꝯ
ipm iſtē fere auctes Ari.Com.ꝛ oīuꝫ antiq̄rū auctoꝝ:ſunt
ēt rōnes nāles:ꝛ expiētie multe.pª gdē auctas eſt Ariſt.3°
phy.t.cō.8.ꝛ.16.17.vbi expſſiſſime dicit ꝙ oē agēs nāle:
qꝛ hꝫ po9 ꝯuūctā actui cū ꝉ ꝙ agit in paſſuꝫ ab ipo ēt paſ/
ſo repatiť.Idē ꝛ pº de gnōne plibꝫ in locis hꝫ:ſꝫ maxie tex.
cō.53.ꝛ 4.vbi ſic ait.pmū igiť mouēs nihil phibet in motu
gdē eſſe imobile.in gbuſdā aūt eſt ꝛ neceſſariū.vltimū aūt ſemp
mouere motū:in actione aūt pmū gdē in paſſiōe.vltimū autē ꝛ

ipſum

ipſm patiēs:q̄cūq; aūt nō hūt eādē mām faciūt īpaſſi[le] ex/
tra.v.g.medica[us]:ipſa.n.faciēs ſanitatē nihil patiť a ſana/
to.cib[us] aūt faciēs ipſe patiť ēt:aut.n.ifridať aut aliud:qd pa
niť ſil faciēs ⁊c̄.Idē ēt.i.cō.87.⁊ in 2° ēt li°multis in locis.
Eſt ⁊ vna alia expſſiſſima auctas ꝑhi 4° de gña.aialiū.
ca.3°:que iudicio meo cauillationē nō patiť:vbi ſic ait/cū
vt mor[us] ſoluanť eſt ꝙ oē agēs patiť etiā a patiēte:vt qd ſe/
cat hebetať ab eo:qd ſecať:qd calefacit refrigeraťa cale/
ſcente:deniq; qdcūq; mouet excepto p̄ mutuo meueťaliq̄
motū.v.g.qd pellit pelliť q̄dāmō qd ꝑmit reꝑmiť.Inter/
dū etiā ita fit:vt qd agit magis patiať q̄ agat ⁊ refrigereť
qd calefacit ⁊c̄.Quā videas tu:q̄ clariſſime ſonat ꝙ vera
reactio deť inter agēs ⁊ paſſuʒ:ita vt nullā patiať cauilla/
tionē:multe etiā alie auctes hincinde pñt ex varijs locis
Ariſt.⁊ antiq̄rū auctoꝝ:vt Auer.Them.Alex.⁊ medicoꝝ
afferri. Nos tñ his volum[us] eē ɔtēti:clariſſime.n.declarāt
ɔnem Calcul.nō conuenire dictis Ariſt.in hac re.

R°Cal. ¶ Calcu[la]. tñ ⁊ ei[us] ſeq̄ces vidētes auctes ita manifeſtas/co-
nati ſunt dare varias expōnes vt diffi[cultatem] effugiāt:duas igť
dant expōnes ad vba Ari.p̄[ma]s dat Calcul.in h trac.vbi di
xit.ꝙ vba Ari.in 3° phyſi.⁊ 2° de gña.ſunt ſane itelligēda:
nō.n.ꝑ ea voluit ꝙ oē agēs ſil etiā patereť actu ab ipſo pa/
tiēte dū agit:ſʒ h itell[ige]n[dum] eſt in po[tentia] vł aptitu[dine]:vt ſit ſenſuʒ/
ꝙ oēe agēs cōicās in mā cū paſſo/q̄ntū eſt de ſe pōt pati.
nō q̄dē dū agit:ſʒ alio tp̄e vel ab ipſo patiēte vel ab altero
eiuſdē ſpēi.Silr qñ di ꝙ omne agēs in agēdo repatiť ītel
ligendū eſt ꝙ eſt aptū natū repati ab aliq̄ agente ɔrio:nō
aūt ꝙ ſil agat in aliq̄d ⁊ ab eodem patiať:q̄ h videť im/
poſſibile:vt declarauerūt arg[umen]ta facta in oppoſitum.

R°Jac. Forli. ¶ Jacobus aūt Forli.volēs ſaluare has auctes dixit nihil
aliud voluiſſe Ari.ꝑ repaſſionē ſeu reactiōeʒ niſi reſi[ſtentia]ʒ ipſi[us]
paſſi ad agens:⁊ eo mō v[er]itatē hñt oēs ille auctes Ariſt.
¶ Siqs tñ recte ɔſiderauerit ſigillatim vba Ariſt.videbit
neq̄q̄ illis aliq̄ iſtaꝝ expōnū ɔſonare.p̄.n.ſunt ɔrie Cō[me]n[tatoris].
⁊ oīb[us] tā grecis q̄ latinis expoſito[ri]b[us] antiq̄s:oēs.n.vno ore
exponūt vba Ari.de vera ⁊ poſi[tiua] reactione:in cō[men]to.8.ter
tij phy.ait Com.qñ cib[us] eſt agens in corp[us] ſm ꝙ eſt actu
panis ⁊ patiēs ab ipſo ſm ꝙ eſt corp[us] in po[tentia].neceſſe eſt igť
vt ſint hic aliq̄ que mouēt ſe ab īuicē ⁊ mouenť ab inuicē:
⁊ ꝙ hec duo ſint vera.ſ.agē ⁊ pati ſil.ſilr in cō[men]to.16.dicit.ſʒ
q̄ nō agit niſi ꝑ ɔtactū cū ſit corp[us]:ideo ɔtigit ei nec̄io mo
ueri ab eo qd mouet.ſilr in p̄ de gña.cō.53.dicit ꝙ ſi agēs
nō cōicat in mā cū paſſo nō patiť ab eo eodē mō ſm quē
agit ꝙ ſi cōicat in mā:nec̄e eſt vt patiať.h idē a Them.3°
phy.expſſiſſimis videri licet.Sʒ deide ēt hec expō Calcu.nō
q̄drat vbis Ari.nō ſolū.n.Ari.cōparat in cō.8.3[i] phy.agēs
paſſo ſm apti[tudine]ʒ vel po[tentia]ʒ ſʒ etiā ſm actū:dicit.n.oē.n.eſt ſil
actiuū ⁊ paſſiuū.ſubdit deide.ḡ ⁊ mouēs phyſice mobile
eſt:deide vo addit:oē.n.h[uius]mōi mouet cū moueť ⁊ ipſm:ecce q̄
clare vba Ari.ſonat ꝙ nō ſolū agens eſt aptū natū pati:ſʒ
ꝙ actu ēt dū agit patiť.vba ēt ipſi[us] p̄ de gnōne ⁊ corrup[tione].⁊
4° de gña.aialiū.adeo clara ſunt vt fatuū ſit in eis imora/
ri:vult.n.4° de gña.ꝙ ex reactiōe patiētis ad agēs debili/
taťv[ir]t[us] agentis/vt nō poſſit pfecte aſſilare paſſuʒ:imo ſub/
iūgit ꝙ aliq̄n multo maior eſt reactio patiētis q̄ ſit actio
agentis.dicit.n.ꝙ aliq̄n calefaciēs magis refrigeraťab eo
qd calefit q̄ calefaciat:⁊ aliq̄n ecōtra:qd q̄deʒ ſaluari nō
pōt ſi exponamus/ꝙ agens repatiť.i.pōt pati:non autem
actu patiť:neq; etiam ſi exponamus repatiť.i.habet reſi/
ſtentiaʒ.Et hec ſatis ſint quātum ad auctes.
¶ Multe etiā rōnes pñt adduci ɔ hanc opionē:nos tñ tñ
tres afferem[us] que maxīe innituť nālib[us] pn[cipi]js.Pria rō erit
hec:manife[ſtu]m eſt ꝙ īter ipſa elīta ſm eas ptes q̄b[us] ſe tāgūt
ſphere elīoꝝ/ſemꝑ eſt ɔti[nu]a actio ⁊ paſſio:vt pōt ex Ari.hñi
multis in locis: vnde dici ſolet ꝙ elīta nō ſunt ſincera ſm
eas ptes q̄bus ſe tāgūt:ſemꝑ.n.applicatis īter ſe actiuo ⁊
paſſiuo:ſequiť actio ⁊ paſſio.h igiť ſuppoſito accipio duo
elīta imediata:puta terrā ⁊ aquā/ſemꝑ nec̄ium eſt vt iter
ipſa ſit actio ⁊ paſſio.q̄ro igiť an ita ſe habeāt ꝙ vnū ipſoꝝ
tñ agat:alterū vo tñ patiať:aut vtrūq; ſimul ⁊ agat ⁊ pa
tiať ab altero:nō vi rōnabile q̄deʒ ꝙ alterū tñ agat ⁊ al/
terū tñ patiať:p̄ q̄ ɔtra h videť expientia:videmus.n.ꝙ
vbi ſe elīta ɔtāgūt vtraq; ſunt alterata ⁊ ipura:vt pʒ.vbi
ciʒ terra tāgit aquā vel aereʒ.Manife[ſtu]m eſt ꝙ nō eſt in ſua
nāli diſpōne:neq; terra:neq; aqua/vt pōt facile videri:et
oēs ɔcedūt.Si igiť vtrūq; eſt ipuruʒ ⁊ alteratū.⁊ h ꝓue/
nit ex coꝝ actione ꝓpter ɔrietatem que in ipſis eſt:ſeq̄ť ꝙ
vtrūq; in alteruʒ agit.Huic etiā ratio ɔſonat:ſi.n.vnū tñ
ageret ⁊ alteꝝ tñ pateretť deſtrueretť ꝓportio elīoꝝ.ſemꝑ
ciʒ excreſceret illud qd agit ⁊ diminuereť qd tñ patiť:vt
ex ſe clarū eē videť.ſeq̄ť ḡ ꝙ vtrūq; agit in alterū:⁊ ab eo
etiā patiť.ſi aūt ita ſit/vlteri[us] quero:nūq̄d talia elīta ſe cō/
tāgentia iter ſe agāt ⁊ repatianť ſm eaſdeʒ qualitates:vel
ſm diuerſas.nō pōt dici ſm diuerſas/vtputa ꝙ aqua per
friditatē agat:per ſiccitatē aūt patiať:q̄ oīs actio eſt rōne
ɔrietatis:vñ per friditateʒ nō pōt eē iter ipſa actio:hñt.n.
aqua ⁊ terra ſymbolū in frig[idita]te.ſeq̄ť ḡ ꝙ inter ipſa ſit actio
⁊ paſſio tñ rōne ſiccitatis ⁊ humi[di]t[at]is in q̄b[us] ɔrianť:q̄re non
eſt ipoſſe idē ſm eaſdē q̄li[tate]s ⁊ eādeʒ ɔrietatē ſil agere ⁊ pa
ti ab eodē ꝙ itēdebam[us] ꝓbare ɔ Calcul.Hec igť ſit p̄[ma] rō.
¶ Scda aūt ratio ɔtra hāc Calcu[latoris] opioneʒ/accepta eſt ab
ipſa mixtione ⁊ cōpłone.ſi.n.negauerimus taleʒ reactionē
que fit ſm eaſdem q̄litates/neceſſe eſt negare cōpłoneʒ/⁊
verā mixtionis rōneʒ:qd quātū ſit abſurdū nemo eſt qui
ignoret.Qr aūt h ſequať facile eſt videre/ſiqs recte ꝑpen/
dat vba Ari.p̄ de gnōne.tex.cō.89.⁊.90.⁊ 2° de gnōne.tex.
cō.48.nō.n.fit vera mixtio niſi oīa elīta talr iter ſe agāt
⁊ mutuo patiātur vt ad q̄dā mediuʒ reducātur qd actu
nō eſt aliqd ipſoꝝ:ad mixtionem igiť nec̄ia eſt actio ⁊ re/
actio ſi debēt talr alterari miſcibilia vt ad mediū reducā
tur:qñ aūt vnū elīntuʒ tñ agit:alterū vo patiť nō fit mix/
tio:vt dicit Ari.locis citatis:ſʒ ſimplex vni[us] gñatio/⁊ alte/
rius corruptio.Idē etiā de cōpłone eſt dōm:vt a medicis
ciʒ habeť:⁊ maxime ab Auic.p̄[mo] p̄mi.ca.de cōpłonib[us].cō/
plexio fit ex actione ⁊ paſſione adinuiceʒ ɔriaꝝ qualitatū
elementoꝝ: vnde niſi ſit mutua actio ⁊ paſſio inter p̄mas
qualitates nunq̄ fiet complexio.
¶ Ad rōneʒ hāc lʒ Calcul.nihil ipſe rñderit:multi tñ ex po
ſteriorib[us] eius opionē defendē volētes ⁊ ipſius efficaciā cō
ſpicientes conati ſunt rñdere:⁊ iter alios Jacob[us] Forliuiē
ſis ⁊ clariſſimus etiā iter oēs Theologie pfeſſores qui nr̄a
floruerint etate magiſter Franc̄.neritonēſis ordis pdi[cato]r[um].

¶ Jacob[us] igiť duas dedit rñſiones.In p̄[ma] q̄deʒ ɔcedit mix/ R°Jac.
tioneʒ verā in his iferiorib[us] q̄tidie fieri:ɔcedit etiā nec̄iuʒ
eſſe in mixtione remitti v[ir]tutes ⁊ q̄litates elīoꝝ/adeo vt
ad mediū q̄dāmodo reducātur:nō tñ ex h dicit nec̄iuʒ eē
vt ɔcedať reactio/ita vt ſimul aliq̄d in aliud agat ⁊ ab eo/
deʒ ſm eādē ptē patiať:vult.n.ꝙ ſi in mixtione.v.g.ignis
in aquā agat ⁊ ipſam alteret nō ampli[us] poſſit eodeʒ tp̄e ab
aqua pati ꝓp incōueniētia adducta in pn[cipi]o q̄ōnis:ſʒ dicit ꝙ
aque.friditas q̄deʒ remittiť ab igne:ignis vo caliditas nō
ab aqua/ſʒ a celeſti īfluētia que ipſa elīta ad mixtionē di/
rigit:⁊ ſic vitātur incōueniētia hincinde ſequētia.
¶ Hec rñſio mihi nullo modo videť poſſe ſtare maxīe in
via Ariſ.⁊ Cōmē.etiā:p̄ q̄deʒ q̄ ex ipſa ſeq̄ť celū poſſe fri/
giditateʒ ꝓduceř/qd eſt ɔtra Auer.maxime 2° celi cō.42.
ſed his oīb[us] dimiſſis.deide hec rñſio eſt ex toto aliena ab
Ari.⁊ vbis eius p̄ de gñatiōe.tex.cō.87.8[8].⁊ 9[0].vſq; in finē
clamātis per totū:ea tñ miſcibilia que mutuo agūt ⁊ pa/
tiūtur.ea aūt que nō agūt mutuo ⁊ patiunť ab inuiceʒ vel

difficile patiunt̃ nõ ꝓpe dicunt̃ miſcibilia: ſ; ea tñ q̃ ſunt abinuicẽ paſſiua: vbi expſſe vult ꝙ ſit mutua actio ꝛ paſſio iter elñta ad mixtionẽ deueniẽtia. nõ aũt ꝙ q̃dã ipoꝝ ab iſluẽtia remittant̃. vñ dicit Ari. fieri mixtionẽ qñ adequãtur poᵃ ꝙ exponẽs Cõmẽ. ait. Mixtio aũt ↄtingit qñ equalr̃ patiũtur ꝛ agũt. Cuius cã eſt: q: tũc equalr̃ trãſmutat̃ vtrũq; ex qua trãſmutaᵗⁱᵉ neutrũ in alteriũ: ſ; ambo in meᵐ q̃dã illis cõe. nõ ḡ eſt iſluẽtia remittẽs elñta: ſ; ipoꝝ mutua actio. ꝛ ideo dicit ipa miſcibilia oportere vt ſint ↄ̃ria vt adinuicẽ ſint paſſiua. Et ꝙ hec ſit ꝓhi itẽtio appet 2° de gña. tex. cõ. 48. vbi de mixtione loquens ait: q: que miſcent̃ corrũpũt itẽtiones abinuicẽ: nõ dicit ꝙ celũ vel iſluẽtia ipa remittat: ſ; ꝙ ipa adinuicẽ corrũpũt itẽtiones ſiue excellẽtias ↄ̃rietatis: ꝛ huiꝰ cãm iferiꝰ reddẽs, q̃uo pñt inuicez ↄ̃ria mutuo agere ꝛ pati ait: q: actu frigᵐ eſt poᵉ calidũ ꝛ actu calm eſt poᵉ frigᵐ: ꝛ ideo qñ equãtur in virtute mutuo agũt ꝛ patiunt̃: quãdo ṽo nõ equãtur ita vt mutuo agãt nõ amplius fit mixtio: ſ; vnũ in alterum trãſmutat̃: ecce luce clariꝰ hec rñſio Iac. repugnat itẽtiõi ꝛ ṽbis ꝓhi.

¶ Scda etiam rñſio eius: q: ponit alia ee elñta que agũt, ꝛ alia que patiũtur nõ minus repugnat ṽbis Ariſt. q̃; pᵒ. penultimo. n. cõᵗᵒ: ꝛ tex. ꝑmi de gñatione ait ꝙ qñ alteꝝ ſolũ paſſiuũ erit, aut vehemẽter: alteꝝ ṽo parũ aut nihil ex ipſis verã nõ fieri mixtiõe ſic ipſe declat exẽplo ſtãni ꝛ eris.

R° Frã. Nerito. ¶ Aliter aũt conatꝰ eſt rñdere magiſter Frã. neritonẽſis et ipſe in hac re inſecutꝰ viaz Calcul. qui ex vna pte vidẽs difficultatẽ ſaluãdi verã mixtionẽ, ſi reactionẽ negauerimꝰ; ex alia ṽo multa incõueniẽtia ſeq ſi ipſam ↄceſſerimus: vt oẽs has anguſtias euitaret, ꝑrim ↄceſſit reactionẽ: partim negauit. per accñs q̃dẽ ↄceſſit: per ſe ṽo negauit. qd̃ h̃ modo declarat̃ ↄcurrẽtibꝰ. ṽbi. g. igne ꝛ aqua ad mixtionez ſi ignis agit in aquã per caliᵗᵉᵐ. per ſe q̃dẽ corrũpit aque frigiditatẽ: aqua tũc nõ põt per frigᵗᵉ; agere in ignẽ per ſe. ꝛ h̃ ꝓꝓ rõnes ſupius adductas: vñ ſi aqua reagit in ignez, ꝓ humiditatẽ reagit: ꝛ in tali reactione per ſe q̃dez remittit ſeu corrũpit ignis ſiccitatem ad corruptiõez aũt ſiccitatis ignis per viaz ſequele, ex q̃daz affinitate ꝛ ex q̃dã ordine quẽ hñt iter ſe ille due q̃liᵗᵉˢ in igne remitti etiã vel corrũpit̃ caliditas. ſilr̃ ad remiſſionẽ frigiditatis aque remittit̃ eiꝰ hũiditas. ꝛ ſic ↄcedit iter elñta ſm eãdẽ ↄ̃rietatẽ actionẽ ꝛ reactionẽ per accñs tñ: ꝛ per viaz ſeq̃le: nõ aũt per ſe. ꝛ h̃ modo ex elñtis ad mediũ reductis mixtũ gñat̃ ꝛ hac via credidit poſſe ſolui oẽs diffiᵗᵃᵗᵉˢ vtrinq; exoriẽtes: ꝛ hãc dicebat (vt retulerũt eiꝰ diſcipli) fuiſſe diui Tho. opionẽ.

¶ L; aũt hic vir habitꝰ ſit omni veneratione dignus: mihi tñ hec eius rñſio neq; ṽitati ↄſona videt̃: neq; mẽti Ariſt. vel eius ṽbis. ꝑ q̃dez q: ex ipa ſeq̃t talẽ reactionez repiri ſolũ iter ea elñta que ſm duas ↄ̃rietates opponũtur. inter ea aũt que ſymbolũ hñt nulla poſſet cadere reactio cũ inter ipa nõ cadat actio niſi ſm vnã tñ ↄ̃rietatẽ: h̃ aũt videtur abſurdũ ꝛ expſſe ↄtra Ari. voluit eñ; Ari. ꝑ de gña. ꝛ 2° locis ſepius citatis h̃ eſſe ꝓpriũ oium actiuoꝝ ꝛ paſſiuoꝝ que cõicãt in mã vt inuicẽ agãt ꝛ patiãtur: ꝛ iter ipa poſſit cadere reactio: nã in. 87. tex. ꝑ de gñatiõe. ſic ait ꝓhs. hec q̃dez igit̃ ↄuertũtur quoꝝ eadẽ eſt mã ꝛ actiua adinuicez ꝛ paſſiua adinuicẽ. Idez 2° libᵒ eiuſdẽ: l; colligere loco ſepius adducto. 3° etiã phyſi. vult omne agẽs per ↄtactũ ſil̃ pati dũ; agit. Cõtra hãc ẽt rñſionẽ directe eſt ꝑᵃ ratio quã adduximus ↄtra Calcuᵗᵉᵐ de actione elñtoꝝ imediatoꝝ.

¶ ꝓ. Ego velim ſcire nunq̃d ſemꝑ h̃ ſit neceũ; qd̃ ipſe dicit: vt. ſ. ad remiſſionẽ vnius q̃litatis in elñto per viaz ſeq̃le remittat̃ ꝛ altera, vel nõ: ſed tñ h̃ aliqñ accidat, vtputa in mixtione. ſi dicãt hoc nõ eẽ neceũ;, ſed tñ aliqñ fieri: h̃ nõ videt̃ rõnabile: que eſt. n. ratio cur aliqñ fiat ꝛ aliquãdo nõ: nulla videt̃ poſſe aſſignari ratio, niſi velimꝰ recurrere ad influxus celeſtes, q̃ẽadmodũ fecit Iacobꝰ Forli. de quo pauloante diximus. Si ṽo dixeris h̃ eſſe neceũ; ꝛ ſemꝑ ↄtingere: tũc videt̃ ſeq ex hoc ꝙ nõ poſſit terra calefieri gn ẽt fiat humidior: qd̃ videt̃ abſurdũ;: ꝙ ẽt nõ poſſet vnũ elñtũ alterari ſm vnã q̃litatez remanẽte altera in ſua itẽſione: ſequit̃ etiã ꝙ ſi aer agat in aquã vt ipſam aſſimilet quãto magis aget, tãto aqua redderet̃ ſiccior, qd̃ videt̃ inopinabile: cũ;. n. aer ſit ꝑ humidus vĩ ex eius actione potius debeat itẽdi humiditas aque, q̃; remitti: ꝛ itẽdi ſiccitas. Qꝛ aũt h̃ ſequat̃ manifeſtũ eſt: aer. n. agẽs in aquã ꝑ corrũpit friditatẽ aque ꝛ cũ ad corruptiõez friditatis in aqua ſit neceũ; via ſeq̃le corrũpi et eiꝰ humiditatẽ, vel remitti: quãtũ aũt in aliq̃ ſubto iuxta cõez viaz remittit̃ vel corrũpit̃ humiditas, tãtũdẽ intẽdit̃ vel gñat̃ ſiccitas: ſeq̃t̃ ꝑterea ꝙ q̃tũ; ex vna pte diſponit̃ aq̃ ad gñationẽ aeris tñ, ex altera redditur magis indiſpoſita: q: fit ↄtiᵉ minus hũida ꝛ magis ſicca: ſiccitas aũt repugnat gñationi aeris: ꝛ ſic nunq̃; poſſet ex aqua gñari aer: ꝛ multa alia abſurda pñt deduci ex hac opione que dimittimus cã breuitatis.

¶ Qꝛ etiã ſm Ari. nõ ſolũ ſit ponẽda reactio per accñs: ſed etiã per ſe põt luce clarius hẽri tũ; ex eiꝰ ṽbis in varijs locis iam citatis: tũ; ex cã quã ipſe aſſignat, cur pñt ↄ̃ria mutuo ꝛ inuicẽ agere ꝛ pati ꝑrim 3° phyſi. ꝑrim 2° de gñatiõe tex. cõ. 48. dicit. n. ꝙ ideo pñt inuicẽ agere ſil̃ ꝛ pati ↄ̃ria, vtputa calidũ ꝛ frigᵐ: q: qd̃ eſt actu calidũ eſt poᵉ frigᵐ: ꝛ qd̃ eſt actu frigᵐ eſt poᵉ calidũ. Manifeſtũ aũt eſt ꝙ hec ratio nõ eſt ratio agẽdi per accñs, ſ; per ſe: agẽs. n. ꝑ ſe facit actu tale qd̃ eſt poᵉ tale: nõ aũt per accñs. ¶ Illud etiã argᵐ de parte repaſſa quo ↄceſſa reactiõe deducebat̃. ad h̃, ꝙ idẽ duobꝰ motibꝰ ↄ̃rijs moueret̃ calefieret ꝛ ifrigidaret̃ angeret hãc opionẽ: tñ. n. ꝑ ſe q̃; ꝑ accñs h̃ eſt ipoſe ꝛc̃.

¶ Qꝛ etiã dicit hãc fuiſſe mẽtẽ. d. Tho. credo ſalua eius reuerẽtia eẽ falſum: nunq̃;. n. ab eo hoc dictũ inueni: imo eiꝰ ṽba ex toto ſonãt oppoᵐ in h̃ 3° phyſi. ꝛ in liᵒ de gñatione. Hec igit̃ ſatis ſint q̃tũ ad 2ᵃᵐ rõnẽ ↄtra Calcul. ꝛ eos qui eius opinionẽ in hoc materia ſunt inſecuti.

¶ Tertia aũt ratio ↄtra ipſm põt deduci ex his que q̃tidie fiũt in aialibꝰ: ſublata. n. reactione nõ videt̃ q̃uo in aialibꝰ hñtibꝰ pulmonẽ ſit neceia iſpiratio, ꝛ expiratio ad ↄſeruationẽ vite ipoꝝ, vt expiẽtia clara eſt: ꝛ tradit̃ ab Ari. in libello de iſpiratione ꝛ reſpiratiõe: ꝙ aũt ex iſpiratiõe ꝛ reſpiratione manifeſte poſſit ↄcludi vera reactio facile declarari põt ſi velimus cãm iſpicere ꝓꝓ quã Ari. ꝛ medici oẽs dicũt ꝑ neceiaz iſpirationẽ: ꝛ deĩde expirationẽ: ꝓꝓ hoc eñ; neceia eſt iſpiratio vt calor itrinſecus aialis maxime in corde refrigeret̃ ꝛ tẽꝑet̃ aliquãtulũ ne ſupra modũ excreſcat ꝛ per marcorem iteream aial: vt ait Ari. refrigerat̃ aũt per attractionẽ frigidi aeris. neceia ṽo eſt expiratio: q: aer attracꝰ in pulmonẽ ꝛ cor ibi ſupcalefit: ꝛ reddit̃ inaptus ad refrigeriũ caloris: ꝛ ideo neceũ; eſt ipſum expelli: vt eius alius frigidior poſſit per iſpirationez ſuccedẽ. Ecce manifeſta reactio aer attracꝰ ad cor ipſius calorez refrigerat et ↄtẽperat: ꝛ ab eo etiaz calefit. nec poſſumus fugere hic ad diuerſitatez partiũ aeris vel cordis hic ſicut faciũt ſeq̃ces Calcuᵗᵉ voletes multa expimẽta ſaluare que videtur arguere reactionẽ: nã illemet ptes que refrigerãt cordis calorẽ eedez ab eo calefiũt: niſi. n. ille ptes frigide calefierẽt nõ fierẽt inapte refrigerio cordis: nec poſtea neceũ; eſſet, vt ſuccederet expiratio: vt de ſe manifeᵐ eſt. Hec igit̃ inter alia multa que pñt ↄtra hãc opionẽ adduci nobis ſufficiãt, ꝓpter que credimus Calcuᵗᵉ opionez rõni: ꝛ ſui olĩ no repugnare: ꝛ ꝑnᶜⁱᵖⁱᵒ totius philoſophie.

Relicto itaq; Calculatore ad alioꝝ opiones trãſeamus. fuerunt igit̃ alij multi qui ↄtrariã viaz ſunt inſecuti: ꝛ ↄceſſerũt reactionem nõ ſolu; ſm q̃litates

ſm qualitates diuerſoꝝ generuꝫ ⁊ ꝯtrarietatuꝫ: vt Calculator in ſua pͣ ꝯcluſione: ſed etiã ſm qualitates eiuſdẽ contrarietatis: ita ꝙ ſi vnũ per caliditatẽ in alterꝝ agat ab eo per frigiditatẽ pati poſſit: ⁊ hoc nõ ſolũ veritatem hic voluerũt in his que hñt ptes difformes: vt Calculator. ſed in his etiã que ſunt vniformia in oĩbus ptibus: ⁊ nõ ſolũ qñ agẽs ⁊ patiẽs ſunt eque po: ſꝫ etiã qñ vnũ eſt altero potẽtius. ⁊ hãc ꝯnẽ conati ſunt multi defendere ⁊ cõprobare, qui lꝫ in ꝯne cõuenerint, multũ tñ in fundamẽtis qbus conãtur ſuſtinere et defendẽ hãc ꝯnem, ſunt diſcordes: imo ꝯtrij. Ex vna.n.pte Marſilius inguen: Alb. de Saxonia: Paulus Vene. ſup li° de gñatione ⁊ corrup. Iac. Forl. in trac. ſuo de itẽſione ⁊ remiſſio. in 2ª pte. Haetanus in trac. ſuo de hac mã. ⁊ in recollectis ſuis ſup 3° phyſicõ. ꝯueniũt nõ ſolũ in ꝯnibus in hac mã: ſed etiã in fundamẽtis. Fundamẽtũ.n. cui innituñ iſti, eſt hoc ex toto Calculatori oppoſitum. ſ. ꝙ qualitates pͥᵉ elementoꝝ nõ eãdẽ hñt rõnes in actiuitate ⁊ reſiſtẽtia, imo oppoſitã: qꝛ. ſ. vnaqueqꝫ qualitas quãto eſt actiuior, hoc eſt potentior in agẽdo, tãto eſt minoris reſiſtentie: ⁊ quãto minus actiua tãto magis reſiſtitiua agẽti volẽti ipſam corrũpe. vñ dicũt caliditatẽ eẽ maxime actiuã minime reſiſtitiuã: poſt caliditatẽ eſt frigiditas: deinde humiditas. minime vero actiua eſt ſiccitas, ⁊ maxime reſiſtitiua. hoc aũt rõnabiliter factũ eſt vt poſſit debita ꝓportio ⁊ iuſtitia ſeruari in his gñabilibus ⁊ corruptibilibus. Hoc itaqꝫ ſuppoſito facile eſt vidẽ veritatẽ ꝯnis. pͥ gdẽ ꝙtũ ad ꝯria eque po: ſuppo ꝙ ſint duo corpa qrũ alterũ ſit calidũ vt octo: ⁊ vocet. a. alterũ vero frigidũ vt octo: ⁊ vocet. b. que ſint per totũ vniformia, ⁊ eqlia in po cũ vtrũqꝫ ipſoꝝ ſit magis actiuũ ꝙ reſiſtitiuũ: po g vtriuſqꝫ actiua ſupat reſiſtentiam alterius. cuꝫ aũt motus ꝓueniat a ꝓpor maioris ineqlitatis po agẽtis ſupra reſiſtentiam paſſi poterit vtrũqꝫ in alterũ agere. ꝙ ſi ponam alterũ. v.g. a. eſſe po actiue vt octo reſiſtitiue vt 4ᵒʳ. alterꝝ vero vtputa. b. po actiue vt ſex reſiſtitiue vt 4ᵒʳ agẽtia erũt non eque po: vtrũqꝫ tñ poterit in alterũ agẽ: cuꝫ vtrũqꝫ ſupet reſiſtentiam alterius diffuſe ⁊ clare hec oĩa declarãtur ab ipſis, ⁊ maxime Haet. in ſuo trac. a qbus facile põt videri: clare enim ponũtur. idem etiam facilius declarãtur. de difformibus ⁊c.

¶ Lꝫ aũt vere videãtur ꝯnes circa tamẽ fundamẽtũ quo hi innitũtur multa difficultas vndiqꝫ emergit de qua: quia de reſiſtentia poſterius ſumus locuturi ad illũ locuꝫ dimittem⁹ ⁊ ad Hentiſberi põnem trãſibimus ⁊ eius fundamẽta.

Hentiſber g ex altera pte: lꝫ magna ex parte in cõcluſionibus cuꝫ prioribus ꝯſentiat: tamẽ in fundamẽtis qbus veritatẽ ꝯnum oſtẽdit eſt ex toto diuerſus. ipſe.n. tenet cuꝫ Calculatore vnũqdqꝫ tãtũ eẽ reſiſtitiuũ quãtũ eſt actiuũ: ⁊ ideo alia via conatus eſt ſuſtinere veritatẽ ꝯcluſionũ pcedẽtiuꝫ. Dicit g Hentiſ. in vltͥᵒ ſuo ſophiſmate. ꝙ ſi ſint a. ⁊ b. eque po: ⁊ totũ. a. agat in. b. ſicut ſunt equalia in agẽdo: ita etiã in reſiſtẽdo ſunt equalia quãtũ ad eoꝝ vniuerſam reſiſtentiam: vnde merito ꝓportionis toti⁹ ad totũ, alterũ nõ põt in alterũ agere: qa tñ pars. b. inexiſtẽs etiã ipſi. b. non põt tãtum reſiſtẽ quãtũ ipm. b. totũ: ideo lꝫ. a. nõ poſſit in totũ b. agere põt tamẽ in ptẽ. b. ⁊ ecõtra. b. in partẽ. a. vnde reactionẽ Hentiſ. ꝯcedit merito ꝓportionis toti⁹ ad partẽ. nõ ſolũ aũt inter agẽtia eque po voluit poſſe ꝓbari reactionẽ: ſed etiã ineque po. ſi enim ponat ꝙ. a. calidũ in duplo ſit potẽtius. b. frigido: cũ tamẽ. a. ſi in infinitũ diuiſibile in a.

le debeat intẽdẽ maiori conatu aliud corrũpere ꝙ ſeipm cuſtodire, ⁊ ꝯſeruare ne ab alio corrũpat: ita ꝙ alteri reſiſtat niſi ſm partẽ ne ab eo corrũpat: totũ vero agat ⁊ alterius corruptionẽ ingrat: qḋ mihi nõ videt ſatis rõni ꝯſonuꝫ. veriſile.n. videt hoc, ꝙ pͥus: ⁊ magis debeat aliqs querere ꝯſeruare ꝓpriam nãm: ⁊ eẽ, ꝙ aliqd aliud corrũpere ⁊ ſibi aſſilare: cuꝫ eẽ ſit ab oĩbus maxime appetibile: ⁊ vnũqḋqꝫ maxime deſideret vt cõſeruet ꝓpriũ eẽ: vt eſt ſnia Ariſt. 2° de aĩa. tex. cõmẽ. 34. ⁊ multis in locis.

¶ P. Ego ab eo vellem ſcire nunqd cum. a. agit in. b. actio ipſius. a. terminet ad totuꝫ. b. vel tñ ad aliquã eius ptẽ: ad alias aũt nõ ꝓueniat actio ipſius. a. ſiqdeꝫ dicat ꝙ actio. a. terminat ad totũ. b. mihi videt neceſſariuꝫ eẽ vt fateat etiã totuꝫ. b. reſiſtẽ ipſi: nõ.n. videt ratio cur vna pars reſiſtat, altera vero nõ: ⁊ ſi totũ. b. alterat ab. a. cur ẽt totuꝫ nõ reſiſtat.

¶ P. Si totũ alteraret, totũ vero nõ reſiſteret ſed tñ aliq eius pars, alia vero nõ: ſeqret ꝙ aliq pars ipſius. b. moueret in inſtãti, aut ſaltẽ infinite velociter: qꝛ velocitas motus attẽdit penes ꝓportionẽ agẽtis ad reſiſtentiam. cuꝫ g agẽs habeat actu potentiã determinatã: paſſum vero nullã habeat reſiſtentiam quãtũ. ſ. ad eã partẽ. ſ. que alterat ⁊ nõ reſiſtit. entis aũt ad nõ ens eſt ꝓportio infinita vel magis nulla: qre ſequit qḋ intẽdimus. Si aũt dicat ꝙ actio. a. nõ terminat ad totũ. b. ſꝫ ad ptẽ tñ ipſius. b. ita ꝙ tñ vna pars ipſius. b. altereť ab. a. nõ aũt totũ. b. tunc nõ video quõ poſſit ſaluare verũ rationẽ mixtionis: qꝛ vt eſt ſnia Ari. pͦ ⁊ 2° de gñatiõe locis ſepius citatis miſcibilia opꝫ vt ſint refracta: ⁊ ad mediũ quodãmodo reducta, ita vt neqꝫ ſimplr habeãt eẽ actu: neqꝫ ſimpliciter po. Si aũt agẽs nõ repatereť ab ipo paſſo ſm totũ: ſꝫ tãtũ ꝙtuꝫ ad eius ptẽ aliquã, pars nõ repaſſa hřet eẽ ſimplr actu tale. ſ. calidũ vel frigidum: ⁊ non refractum: ⁊ ſic ex ipſis miſcibilibus nõ poſſet fieri vnũ 3ᵐ diſtinctum ab vtroqꝫ illoꝝ in quo virtus vtriuſqꝫ ſuareť: vt licet clare vidẽ apud Ari. locis ſupius citatis. ¶ Ad hãc difficultatẽ poterũt forſitan rñdere, actionẽ ipſius. a. terminari ad totũ. b. accipiẽdo totuꝫ ſyncathegoreumatice. nõ aũt accipiẽdo totũ cathegorematice: ita ꝙ qlibet pars ipſius. b. alterat, nõ ſimul tñ ſed ſucceſſiue per ptẽ poſt ptẽ in infinitũ, nõ aũt totũ ſimul: ⁊ ſic videť euitari difficultas. ſic.n. ſemp eſt ꝓportio totius ad ptes ⁊ nulla pars remanet que nõ repatiat ⁊ altereť: vt clarum eſt ⁊c.

¶ Quis aũt hec rñſio videat fugere difficultatẽ mihi tñ non ſatiſfacit ad plenũ: ⁊ ratio que me mouet eſt hec: mihi eiꝫ videt veriſile ſatis hoc, qḋ qḋlibet agẽs, vel mouẽs certe ⁊ determinate cuiuſdã virtutis, vel po debeat hře aliqḋ mobile ſibi corrñdẽs tãte ꝙtitatis determinate ⁊ talis cõditionis vt ab eo agẽte vel motore totũ poſſit pͦ ⁊ per ſe moueri vel pati ⁊ ſm eius ptes oẽs: ⁊ hoc tã in motu locali ꝙ alterationis. hoc fundamẽtũ mihi videť neceſſariuꝫ in via Ariſ. maxie ſm Cõmẽ. qḋ ſi negauerimus vĩ ruere tota doctrina Ari. 5° phyſi. in pn°. ⁊ 7° etiã phyſi. in pn°. nã ex hoc ſeqreť: omne qḋ moueť aut moueri per accidẽs aut per ptes: nullũ aũt eẽt motũ per ſe: qḋ quãtũ repugnet Phõ, põt facile videri 5° ⁊ 6° phyſi. fere per totuꝫ. Qꝛ aũt hoc ſequať eſt manifeſtum ex dĩa quã aſſignat tex. cõ. pͥmi. qnti phy. iter id qḋ per ſe: ⁊ qḋ per accidẽs: ⁊ qḋ ſm ptes moueť. illud.n. dĩ moueri per ſe qḋ eſt pͥᵐ ⁊ adeqtũ ſubm motus: ⁊ nõ ipſi attribuiť motus per alterũ vel per ptes eius: ſi aũt nihil eſt qḋ ſimul poſſit ſm oẽs eius ptes trãſmutari tũc omne qḋ

Marſili⁹ inguen et moderni multi.

Hentiſber

hoc/ q a pn° mot⁹ per aliqḋ certū tps nullus mobile inci/ peret per ſe ꝑ moueri:ſed oē qḋ incipit moueri motu ſaltē alteratiõis moueret per accidēs aut ſm ptez:nihil aūt per ſe ꝑ:qḋ videt abſurdū. ¶ ꝓ. Tota ratio Ari. 7 phy. tex. cō. 2.ᵃ qua ꝓbat omne qḋ mouet ab alio moueri maxime ſi Cōmē. ſequamur ibi fundat ſup hoc:qꝛ in quolibet motu eſt reperire aliqḋ/qḋ ꝑ ꝛ per ſe mouet:cui⁹ ſi aliq̄ pars quieſcit ꝛ totū de neceſſitate quieſcit:data aūt hac pōne totū iſtud falſum eſt:maxime in motu alteratiõis:ꝛ maxime in pᵒ parte mot⁹.nihil.n.eſt qḋ in pᵒ pte alteratiõis poſſit per ſe ꝑ moueri:cum omne qḋ alterat in pnᵒ ſaltim alteratiõis per ptē alterat ꝛ nō ꝑ ſm totum:q̄re necīum videt ſuppoᵐ nrm in via maxime Ari. ꝛ Cōmē. ſi igit tale fundamētum ꝯcedat ſtatim ruit fundamētū. Dētiſ.nā pono q.a.ꝛ.b.in caſu poſito ſint duo corpa ꝯria tāte q̄titatis:ꝛ talis etiā nāe vt qḋlibet reᵐ alterius poſſit dici mobile ꝑ ꝛ per ſe vel aptū natū moueri ꝑ ꝛ per ſe tūc quero/ nūqd hec agēt ꝛ patient inuicez:vel nō.nulla videt ratio/cur nō debeant agere/ſi ſint ꝯria in eadē mā cōicātia/inuicem debite approximata:ſi aūt agēt cum vnūqḋq; ipſoꝝ tātū ſit actiuū q̄tū reſiſtiuū ꝛ ſunt eq̄lis poᵉ:tūc ab equali ꝓporᵉ poᵉ ad reſiſᵗ ꝓueniet actio:qḋ videt falſum:nec pōt recurrere ad ꝓporᵉ poᵉ totius/ad reſiᵐ ptis:cum.n.totum ſit illud qḋ patit ꝛ mouet ꝑ ꝛ per ſe totū etiā eſt illud qḋ reſiſtit:quare ſi res reſtringat ex fundaᵗᵒ Dentiſ.nō videtur euitari diffiᶜᵗᵃ moleſtātes eos qui ponūt reactionē ſm eaſdē ꝯrietates.

¶ ꝓ.3ᵒ ꝛ vltᵒ vnūqḋq; reſiſtēs reſiſtit ſm q eſt in actu:qḋ enim in poᵃ eſt/ſm q eſt in poᵃ nō reſiſtit:tūc.n.mā ꝑᵃ maxime reſiſteret:qḋ tn̄ falſum eſt:mā.n.ꝑᵃ per ſe nulli reſiſtit qꝛ eſt pura poᵃ/ſed totū ꝓpe dꝫ eſſe in actu/ptes v̇o hn̄t ꝓpꝛie eē in poᵃ.ſ.ſm q ſunt in toto/nō autem in actu:vt ex Ariſ. ꝛ Auer. multis in locis appꝫ.reſiᵃ g ꝑ ꝛ per ſe debet toti:ptibus v̇o ſcḋario ſm.ſ.q ſunt in toto:vnde ſicut totū eſt illud qḋ dꝛ ꝑ moueri:ptes v̇o ſcḋario ꝛ quaſi per accñs inquātū.ſ.in eo toto ſunt:vt 6ᵒ phyſi.ita etiā totum eſt illud qḋ ꝑ ꝛ per ſe alterāti reſiſtit ptes v̇o ſcḋario.ſi g totum reſiſtit ꝛ totū agit tāta erit reſiᵃ paſſi quāta vtus ꝛ poᵃ agētis:ꝛ ſic nulla ꝓueniet actio:vel ſi ꝓueniet a ꝓportione equalitatis ꝓueniet:qḋ tamen falſum eſt.

Marſilianu opinio.

Ultimo v̇o loco Joā. Marilianus/annis parum ante actis vir per celebris/aliā eſt imaginatᵘ opinionē:in qua ptim cum Calcul. ꝯſentit ptim ei ꝯrius eſt.tenet.n.ipſe/q inter vniformia nulloᵒ pōt eē actio ꝛ reactio/ ſiue tā agēs q̄ paſſum ſint eque poᵉ ſiue ſint nō eque poᵉ: qꝛ voluit cum Calcul. vnūqḋq;/tātū eē actiuū/q̄tū reſiſtiuū.Si v̇o agēs ꝛ paſſum nō fuerint vniformia ita q/vel vtrūq; ſit difforme:vel alterū vniforme/ꝛ alterum difforᵉ: tūc credidit ipe q inter ea ſm extrema inuicē approximata/ſm eādē etiā ptez pōt eē poſitiua actio ꝛ reactio:ꝛ in hoc ꝯdixit Calcuᵗᵉ ſuo:nō tn̄ voluit h ſemꝑ ꝯtingē/vt quotieſcūq; ꝯcurrāt aliqua ꝯria difformia/vel vnū difforme ꝛ alterū vniforᵉ/ſtatim ſequat actio ꝛ reactio:ſꝫ voluit h ſolū inueniri in qbuſdā certis caſibᵘ:vt ipſe declarat/ſuppoſitis tn̄ prius qbuſdā fundamētis/que lꝫ fere innumera ſint/ nos tn̄ ea tm̄ afferemus que magis vident necīa breuitati ſtudētes. ¶ Primū fundaᵐ qḋ ſupponit eſt hoc:nullū agēs nāle per q̄litates ꝑᵃˢ/qbus per ſe ꝛ imeᵗᵉ ꝯiūgit/reſiſtit actioni:quā ipm cum eiſdē q̄litatibᵘ per ſe ꝛ imeᵗᵉ ꝓducit vel intēdit ꝓducere in mā exteriori. Hoc fundaᵐ nitit ꝓbare per deductiōez ad impoſſibile. Dato nāq; eius oppoſito.ꝑ videt ſeq hoc inconueniēs/q.a.vniforme in oībus/ nūc iuuat.b.ad reſiſtēdum.c.ꝛ creſcēs in quātitate ꝛ poᵃ:tn̄ manēs ꝯſilr qualificatum ꝯtinue minus ꝛ minus iuuabit ad reſiſtēdū:ꝛ aliqn̄ nō iuuabit:imo aliqn̄ ecōtra iuuabit c.ad agēdū in.b.cæteris tn̄ oībus paribᵘ. Qꝫ aūt h ſequat ipe deducit/poſito caſu iſto q.a.ſit corpus pedale ꝑ totum hn̄s vnīᵉ caliᵗᵉ vt 4ᵒʳ.ꝛ ſilr frigiᵗᵉ vt 4ᵒʳ.c.v̇o ſit q̄drupeᵉ vniforᵉ frigᵐ vt octo:ꝛ.b.ſit pedale calꝫ vt.8.vniforᵉ:qḋ ſit mediū inter.c.ꝛ.a.tāgēs vtrūq;:tūc maniᵐ eſt q.c.agit in.b.ſ.friᵉ ipſꝫ.tūc g q̄ro nūqd.a.rōne caliᵗⁱˢ iuuabit.b.ad reſiᵐ c.vl nō.ſi h ꝯcedat:tūc vlteri⁹ ponat q ipi.a.addat aliud corpus ipi penit⁹ ꝯſilr q̄lificatū:ita vt.a.ꝯtiᵉ rōne iſti⁹ augmēti in poᵃ creſcat donec poſſit agere in.b.ꝛ tūc ſeqt q.a.ꝯtiᵉ min⁹ iuuabit.b.ad reſiᵐ:imo ipm aliqn̄ aget in.b.per frigiᵗᵉ:ꝛ ꝑ ꝯñs tunc nō iuuabit.b.ad reſiſtēdū. ¶ 2ᵒ ſeqt ēt h icōueniēs q nullū tepidū agere pōt in aliqḋ eo/aut frigidᵘ/aut calidᵘ:qḋ ꝓbat ſic:qꝛ ſit.a.tepidū cētū pedū qḋ agat in.b.pedale hn̄s vniforᵉ caliᵗᵉ vt.7.ꝛ friᵗᵉ vt vnū:tūc ſi caliᵗas que in tepido eſt reſiſteret ei⁹ actioni nunq̄ illud poterit agere in.b.qꝛ ex vna pte eſt caliᵗas.a.que reſiſtit vna cū caliᵗᵉ.b.ꝛ frigiᵗᵃˢ.a.agit ꝛ adiuuat a frigiᵗᵉ.b.cū aūt caliᵗas in tepido ſit eq̄lis poᵉ cū ei⁹ frigiᵗᵉ:vel fortaſſe maioris:ꝛ caliᵗas.b.ēt maioris poᵉ q̄ ei⁹ frigᵗᵃˢ magis poterit reſiſtē caliᵗas q̄ agere fridiᵗas.ꝛ ſic nō poterit.a.tepidum/ q̄tūcūq; magnū agere in aliqḋ calᵐ/q̄tūcūq; paruū per frigᵗᵉ:que oīa vident abſurda:ꝛ his ſilia multa pñt adduci:q̄re fūdaᵐ vꝫ verꝫ. ¶ 2ᵐ ei⁹ fūdaᵐ eſt q in corpe vniformi vna pars iuuat aliā ad agēdum in ſuū ꝯriū ſm eā q̄liᵗᵉ qua eſt vniforᵉ.ſilr vna pars iuuat aliā ad reſiſtēdū cuilꝫ ꝯrio qḋ illā q̄litatē itēdit corrūpe. ¶ 3ᵐ ſuppoᵐ ſeu fundamētū eſt h in corpibᵘ difformibᵘ nō q̄libet pars iuuat aliā in agēdo/ſm eam q̄litatē ſm quā ſunt difformia/in q̄cūq; actione:neq; q̄libet pars iuuat alterā ad reſiſtēdū ꝯrio remittēti illam qualitatē:ſi.n.ſit.a.corpus q̄drupedale cuius tres ptes ſint vniforᵉ calide vt octo:ꝛ vna calida vt ſex:ꝛ et frigida vt duo:ꝛ ei applicet.d.corpus pedale vniforᵉ hn̄s frigiditatē vt ſeptē:ꝛ caliᵗᵉ vt vnū/ſm ptē illā magis calidā que vocet.b.tūc maniſeᵐ eſt q.a.aget in.d.ſm.b.partē:ꝛ pars illa calida vt ſex:que ſit.c.nō iuuat.b.tum qꝛ diſtat:tū qꝛ nō ꝯriat ipſi.d.q ſi tātū creſceret poᵃ.d.vt poſſet agere in.b.ipſo manēte ꝯſilr q̄lificato:tūc.c.nō reſiſteret ipſi:vt per pᵐ fundaᵐ ſatis pōt ꝓbari.Sꝫ tūc vna pars iuuat in agēdo aliā/tā in corpibᵘ difforᵇᵘˢ/q̄ vniforᵇᵘˢ qn̄ illa pars/que in meᵗᵉ agit/ꝓducit ſua actione tātū gᵐ quātū alia eſſet nāliter ꝓductiua ſicut.c.iuuabit.b.ad ꝓducēdū tātā caliᵗᵉ quāte/ipm ēt.c.eēt nāliter ꝓductiuū:ꝛ nō vltra. Silr q̄libet pars adiuuat aliā ad reſiᵐ/ei actiōi ꝑ quā ꝓducit q̄litas tāti gdus vt eēt ipi⁹ nāliter corrupᵗⁱᵘᵃ. ¶ His igit fundatis declarat Joā. ſuas ꝯnes:ꝛ ꝑ/q inter difformia inuicē approximata ſm extrema/poſſibilis eſt vera actio ꝛ reactio in qbuſdam caſibᵘ:remotis oībᵘ extrinſecis:vt ſit a.pedale calᵐ vt octo vniforᵉ:ꝛ.b.pedale vniforᵉ frigᵐ vt octo q̄ ſint eq̄lia in poᵃ.tūc maniᵐ eſt/q neutrum poterit in alteꝝ agē:reſiᵃ.n.vni⁹ eſt eq̄lis actiuitati alteri⁹.Sꝫ ſi illis inuicē approxiᵗⁱˢ/alteri extremo.a.addat vnū pedale hn̄s caliᵗᵉ vt ſex:ꝛ frigiᵗᵉ vt duo:ꝛ alteri extremo.b.alterū pedale frigᵐ iſti equalēs fridiᵗatis vt ſex:ꝛ caliᵗᵃᵗⁱˢ vt duo:tūc manifeſtum eſt/q vtrūq; iſtoꝝ erit maioris poᵉ actiue/q̄ ipm ſit reſiſtitiue:in.a.enim agit caliditas vt octo:ꝛ caliᵗas vt ſex.ſilr in.b.fridiᵗas vt octo ꝑmi pedalis:ꝛ fridiᵗas vt ſex ſcḋi:qꝛ tam fridiᵗas vt octo q̄ vt ſex:ꝯriant caliᵗati vt octo in.a.non reſiſtit aūt in.a.ipſi.b.caliᵗas vt octo donec in pte.a.calida vt octo introducit frigiᵗᵃˢ vt duo:qꝛ friᵗᵃˢ vt duo nō ꝯriat caliᵗⁱ vt ſex:cū ſil' ſtent.ꝛ ſilr dōm de.b.reᵉ.a. cū g poᵃ vtri⁹ ſuperet reſiᵃᵐ alteri⁹/mutuo inuicē agēt ꝛ patient. ¶ 2ᵃ ei⁹ ꝯ eſt/q inter duo q̄ꝝ alteꝝ ē vniforᵉ/ꝛ alteꝝ difforᵉ pōt eē actio ꝛ reactio:ſic ſi ſit.a.vnū corp⁹ bipedale/cui⁹ pᵃ medietas imeᵗᵉ.b.ſit calida vt octo:ꝛ poᵉ actiue vt vnū cū dimidio in agēdo:alia v̇o medietas ſit calᵃ vt 4ᵒʳ que rōne denſiᵗᵃᵗⁱˢ/vl multiᵗᵘᵈⁱⁿⁱˢ forᵉ ſit poᵉ/ipa ēt vt vnū cū dimidio:

ꝛ ſit.b.

⁊ ſit.b.corpus bipedale vniforme frigiduʒ vt.8. talr̃ diſpo
ſituʒ in forma vt ſit potētie vt duo cū dimidio: qbus ſtan
tib⁹ p3 ꝯcl'o.a.aget in.b.q2 po⁹.a.eſt vt.3.reſiſtētia v̄o.b.vt
z.cū dimidio.b.etiā aget in.a.q2 tñ medietas calida vt.8.
ipſius.a.reſiſtet.b.per certū tp̄s donec.ſ. pars calida vt.8.
remittat̃:⁊ ideo reſiſtētia ei⁹ſoluʒ erit vt vnū cū dimidio:
⁊ actiuitas.b.vt.z.cū dimidio:quare p3 ꝯcl'o.
§ Mari. ¶ Hec opio mihi vı̃ vt pace tanti hoīs dixerim,nec ſibi cō
ſtare:nec ꝑncipiys nālib⁹:⁊ q̃tuʒ qdeʒ ad ꝑmā ptē, in qua
cū Calcu^(r) ꝯſentit ſatis ſupius diximus: duʒ eius opinionē
examinarem⁹: q̃tuʒ v̄o ad ſcd̄aʒ videt̃ tota imaginaria ⁊
nulli⁹ vtilitatis:omne.n.qd̄ ponit̃ in nā ꝓpter aliquē finē
⁊ vtilitatē eſt ponēduʒ: vt p3 z° phyſi.⁊ in tota nāli phia:
ex hac reactione Marili.nulla ꝓuenit vtilitas in nā:nō.n.
mixtio nec aliqd aliud: niſi vellemus dicere q̄ quotiēſcūq3
ſit mixtio:op3 vt miſcibilia diſponant̃ vt ipſe in ſuis caſi
bus diſponit qd̄ videt̃ ridiculuʒ: imo hoc etiā cōceſſo non
fieret mixtio:q2 nō durat actio ⁊ reactio, niſi per paruum
quoddaʒ tempus in ꝑncipio.ſ.vt p3 inſpicienti ſuos caſus.
Ipſuʒ ꝓterea circūſtat argu^(m) illud difficile Calcu^(te) de pte
repaſſa:q2 cōtrarijs motib⁹ moueret̃. Cogit̃ ꝓterea nega
re vnūq̄dq3 tantū eſſe reſiſtitiuū q̄tū ipm̄ eſt actiuū:qd̄ tñ
cōcedit inſequēs Calcu^(tem). ¶ Oz etiā eius ꝯcl'o ꝑ^a ſit falſa,
ꝓbo hoc mō.a.agens in.b.agit tam per caliditatē vt.8.q̃
per caliditatē vt.6.ergo a fortiori per vtrāq3 reſiſtit. ꝯñia
probat̃:q2 vnūq̄dq3 nāliter eſt magis ſollicitū ꝓprie con
ſeruationi q̄ alterius corruptioni:cū ergo ex parte calida
vt.8.⁊ calida vt.6.fiat vnuʒ totale agens qd̄ agit in.b.con
trariuʒ:videt̃ q̄ a fortiori hoc totum etiā reſiſtat cōtrario
agenti in ipſum. ¶ P̄.b.agens in.a.ſimul intendit corrū
pere caliditatē vt.8. ⁊ caliditatē vt.6. ergo illi vtraq3 cali
ditas reſiſtit.ꝯñia p3 : quia vnūq̄dq3 nāliter reſiſtit ꝯrio,
qd̄ nititur ipſuʒ corrūpere.añs v̄o ꝓbatur:q2 pono q̄ tam
a.q̃3.b.ſint tante potētie vt poſſint antea q̄ remittant̃ duo
gradus caliditatis in parte intenſa vt.8. diffundere ſuam
actionē in partē vt.6.qd̄ ſatis eſt poſſibile: ſicut ſi pti vt.6.
fiat additio corporis cōſimilr̃ qualificati ita vt creſcat ei⁹
potētia ipſo manente conſimilr̃ qualificato vt prius:ſicut
ipſe in ꝑmo ſuppoſito faciebat ad.a.tunc poterit agere ad
maioreʒ diſtantiā:⁊ tunc quero:an pars.a.calida vt.6.reſi
ſtet ipſi.b. vel nō:ſi reſiſtit:ergo nō eſt neceſſariuʒ vt ꝑus
remittat̃ pars calida vt.8.ſi ea que eſt vt.6.debʒ reſiſtere:
ſi autē dicat̃ q̄ nō reſiſtet:⁊ tamē.b.aget in ipſuʒ:ergo erit
actio in illa parte ſine reſiſtentia:ergo in inſtanti vel infini
te velociter remittet̃ pars calida vt.6. ⁊ per cōſequēs ve
locius q̄ pars calida vt.8. ⁊ ſic nunq̄ poterit reſiſtere.b.
agenti:quia ſemꝑ erit remiſſior. Oz ſi dicat̃ : tunc quidem
illam parteʒ reſiſtere:quia in eaʒ.b.ꝓducit intenſioreʒ gra
dum frigiditatis q̄ vt.z.ſed anteq̄ ad ipſaʒ ꝑtingat actio
ipſius.b.nō reſiſtit:q2 nōdum ꝓducit gradum qui ſit ei cō
trarius cōtra totuʒ.a.ſm̄ vtrāq3 eius parteʒ eſt id qd̄ ꝑmo
⁊ per ſe agit ⁊ etiā per ꝯſequens ꝑmo ⁊ per ſe reſiſtit:ergo
ſm̄ totuʒ reſiſtit:⁊ nō tñ ſm̄ vnaʒ eius partem:aliter eſſet
magis ſollicitū ad agenduʒ q̄ ad ſeipſum cuſtodiendum.
¶ P̄.Pars.a.calida vt.6.pōt adiuuare partem remotaʒ
in agendo:ergo in reſiſtendo:q2 equalis eſt potētie per ipſʒ
in reſiſtendo ſicut in agendo : ⁊ actio ipſius.b.eſt cōtraria
ſoli.a.q̄tuʒ ad vtrāq3 partē ipſius intendens corrūpere:

ſubiectū vniformiter difformiter caliduʒ: ita vt.v̄.g.in ex
tremo intenſiori ſit calidum vt.6.in extremo remiſſiori ca
liduʒ vt duo: ceteris oībus exiſtentib⁹ parib⁹ : facili⁹ erit
ipſuʒ infrigidare ipſi applicādo agēs infrigidās extremo
intenſiori q̄ in extremo remiſſiori:qd̄ ex toto videt̃ inopi
nabile.Oz aūt h̄ ſequat̃ ex hac rōne manifeſte appet:ſi.n.
approximet̃ agens extremo remiſſiori; oēs ptes reſiſtent:
ſi aūt approxiet̃ extre⁹ intēſiori ptes ime^(te) agenti tñ, que
ſunt intēſiores reſiſtēt:ptes aūt remiſſiores nō adiuuabūt
in reſiſtēdo donec remittāt̃ ille intēſiores ꝑ poſitionē:q̄re
p3 ꝯnes ei⁹falſas eē: eiſdē.n.rōnib⁹ ꝑt z^a iꝓbari qb⁹ ꝑ^a.
¶ Fundamenta etiā qbus nitunt̃ falſa ſunt : vt ex eiſdeʒ
pōt colligi.Ad rōnes aūt qb⁹ ꝓbant̃.videt̃ falſum eſſe q̄
illa incōueniētia ſequant̃ ex oppo^(te) ꝑmi fundamēti.alia.n.
fere oīa ab eo depēdent ⁊ ad ꝑ^m ꝯcedim⁹caſuʒ:⁊ ꝓterea di
cimus q̄.a.rōne calitatis iuuat.b.ad reſiſtēdū.c. ſed ex al
tera pte rōne friditatis nocet ei: vñ qñ ponit̃ q̄ augeat̃.a.
in quātitate ⁊ po⁹.dico q̄ ſemꝑ magis iuuabit q̄to magis
augebit̃ rōne calitatis:tñ magis ei nocebit rōne friditatis
⁊ cū infert̃ tūc aget in.b.q̄ ipſʒ in reſiſtēdo nō iuuat.negatur
ꝯñia.iuuat.n.per vnaʒ q̄litatē:⁊ per alterā agit: ſicut cōtin
geret ſi agētib⁹ inuicē igne ⁊ aq̄ eis approximaret̃ aer:tūc
aer vtrūq3 iuuaret rōne alteri⁹ q̄litatis: ⁊ in vtrūq3 ageret
rōne alterius:vt ex ſe clarum eſt:⁊ a phis conceditur.
¶ Silr̃ ēt negat̃ q̄ z^m incōueniēs ſequat̃.ſ. q̄ tepidū nūq̄
poſſet agē in aliqd̄ calidi⁹ vl' fridi⁹ eo:⁊ ad ꝓbationē dico
q̄ q̄litates que ſil' in eodē ſubto coextēdunt̃, inuicē per ſe
nō pugnāt:neq3 reſiſtūt:vel ꝯriant̃, vt ſunt in illo ſubto: vñ
calitas ⁊ friditas in tepido per ſe vt ſunt in eo nō inuicem
repugnāt neq3 reſiſtunt : ſed per accñs ⁊ ſcd̄ario pñt bene
iuuare illud,in qd̄ agit tale tepiduʒ:ipm̄ aliquātuluʒ vigo
rando ⁊ fortificādo:hoc aūt iuuamētuʒ eſt accñtale:vñ ad
argu^m qñ ꝓbat̃ ꝯñia:q2 maior eſt reſi⁹ q̄ actiuitas ⁊c̄. dico
maior multo eſt virt⁹ actiua tepidi ꝑ friditatē agentis:qa
per ſe agit q̄ ſit iuuamētuʒ qd̄ ꝑbet ei⁹ calitas ipſi.b.in re
ſiſtēdo:q2 ſoluʒ iuuat ꝑ accñs ⁊ ſcd̄ario: vñ ꝑ ſe tñ reſiſtit
ca^(tas) vt.7.b.⁊ id̄ alia rō ē h̄ ⁊ in caū poſito in ꝑ° ꝯne:ibi.n.
cali^(tas).a.ꝑ ſe ꝯriat̃ tā frigi^(ti) vt.8.q̄ frigi^(ti)vt.6.⁊ ꝑ ſe vtrāq3
nitit̃ corrūpere:⁊ id̄ illi vtrūq3 ꝑ ⁊ ꝑ ſe reſiſtit:in tepido v̄o
frigi^(tas) ei⁹ nō ꝑ ſe agit in ꝓpriā ei⁹ cali^(tē3):nec ei ꝑmo ꝯriat̃:
vel ipſaʒ q̄rit corrūpere:⁊ id̄ ꝑ ſe ei nō reſiſtit. Et hec quo
breuius potuimus dicta ſufficiāt circa hāc opioneʒ.

His igit̃ relictis deueniēduʒ eſt ad id qd̄ nob̄ magis
vı̃ ꝯſonum rōni, ⁊ ꝑncipijs nālib⁹, ⁊ ſenſui Opio
atq3 experiētie:regl'a.n.⁊ experimētū ſmonū veroꝝ eſt, vt cō ppa.
cordēt ſenſatis:vñ diſcordātib⁹ rōne ⁊ ſenſu magis adhe
rendū eſt ſenſui q̄ rōni: q2 rō que ſenſui ꝯdicit ſophi^(ca) eſt
⁊ vana:⁊ dimittere ſenſuʒ ꝑꝑ rōnē nō arguit niſi intellect⁹
imbecillitatē:vt ⁊ Ari.⁊ Com̄.⁊ Auic̄.ꝯueniūt: cum igit̃ ex
vna pte ſint rōnes fortes negātiuʒ poſitiuā reactionem:ex
altera v̄o ſit ſenſus ⁊ experientie multe que manifeſte vi
dent̃ oſtendere reactionē auctēs ꝓterea fere infinite Ari.
Cōmē.oīum antiquoꝝ expoſitoꝝ,taʒ grecoꝝ q̄ latinoꝝ,⁊
arabū ⁊ oīuʒ fere medicoꝝ que expſſiſſime huic pti fauēt
nobis magis vı̃ in hāc partē declināduʒ q̄ in aliam.
¶ Dico igit̃ q̄ iuxta nālia ꝑn⁹ ⁊ viaʒ peripathe^(coꝝ) credim⁹
eſſe neceſſariuʒ oīo ꝯcedere inter agētia nālia ⁊ patiētia verā ⁊
poſitiuā reactionē taʒ q̄tū ad q̄litates eiuſdē ꝯrietatis q̄

locis ſupius citatis. ❡ Pria eſt hec/oẽ agens qꝺ eſt in po
molc ſilr dū agit repatiẽ/⁊ dū mouet mouetẽ: ſed oẽ agens
nãle eſt po molc. g oẽ agẽs nãle in agendo repatiẽ. Rõ eſt
Ari. quã effugere volẽtes Calcuſor ⁊ eiꝰ ſeqẽces cauillari co/
nanẽ ⁊ extorquere vba Ariſt. coꝝ tñ cauillos facile eſt co/
gnoſcere/ſi qs vba Ari. recte ꝑpẽderit de qbꝰ ſupiꝰ multa.
❡ Scꝺa aũt rõ ex ipſo Ariſto. põt elici hoc mõ/oẽ agens
qꝺ agit ꝑ cõtactũ: loquẽdo de nãli contactu ſilr patiẽ ab eo
in quo agit: agẽs nãle agit ꝑ cõtactũ: g ⁊c. Maior eſt Ari.
3° phy. t. cõ. 16. ⁊ 17. ꝑ ẽt de gnõne. nõ. n. dĩ verꝰ/⁊ nãlis cõ
tactꝰ niſi inter ea inter que eſt mutua actio ⁊ paſſio: ſi. n. al/
terũ tñ ageret ⁊ alterũ tñ pateretẽ: talia nõ mutuo ſe tan/
gerent: vt ibi dicit Ariſto.

❡ A poſteriori vo ⁊ demſratione ad impõle põt ꝓbari rõ/
nibꝰ ſuperius adductis ꝯ Calcuſrem: qꝛ ablata reactione au/
fertur mixtio: auferẽ rõ reſpirãdi in aĩalibus: ⁊ multe alie
nãles opationes de qbꝰ ſatis ſuperqꝫ ſupiꝰ diſputatũ eſt.

❡ Res hec mihi clariſſima: neqꝫ dubito qn hec fuerit ſnia
Ari. ⁊ antiquoꝝ phoꝝ: imo adeo res necia actio ⁊ reactio
agẽtis ⁊ paſſi/viſa eſt antiqs ꝑipatheticis: vt Alexã. volue/
rit eã a corꝑibꝰ celeſtibꝰ oĩno nõ poſſe abſolui: vt Simpli.
declarat 3° phy. in expõne tex. cõ. 8. qꝺ ex effectu declabat
ipſe/⁊ ex varijs influxibꝰ coꝝ: ſi. n. duo aſtra ꝯrie virtutis
cõcurrãt/dicit ipſe/videmꝰ ꝙ vtriuſqꝫ virtꝰ remittiẽ ⁊ de/
bilitatẽ: vt iuppiter ⁊ mars vl ſaturnꝰ: vñ effectꝰ ab ipſis ꝓ/
uenientes ſunt qſi medij inter vtrũqꝫ: qꝺ nõ eẽt niſi aliq̃ eẽt
inter ipſa actio ⁊ reactio: nõ igiẽ vĩ nobis de hac ꝯne dubi
tandũ maxie in via ꝑipathetica: niſi velimꝰ ex toto negare
mixtionẽ ex elẽtis: vt Tho. de garbo in ſua ſũma fecit.

Ad arga ❡ Quia aũt vt facile ex ꝓbabitis ꝑt cõprehẽdi tota difficul
tas iſtiꝰ rei ꝯſiſtit in ſolõne argoꝝ que fcã ſunt in pª qõnis
pte: que ſi recte ſoluanẽ res clariſſima reddeẽ: ⁊ iõ pro nr̃a
facultate conabiẽ ea ſoluere. pm igiẽ argm fuit tale: qꝛ ſup/
poſito ꝙ ſit poſſis reactio vera ⁊ poſitiua ſm eandẽ ꝯrieta
tẽ: nunc vĩ ſequi vnum/qꝺ eſt cõtra totã ſcholaꝫ phicoꝝ/
ꝙ. ſ. a ꝓportiõe eq̃litatis: vel mioris ieq̃litatis poſſit actio
ꝓuenire: ſicuti clare eſt ſupius deductũ ⁊c.

❡ Pro huius itaqꝫ argui ſolõne: ⁊ amplioris doctrine cã/
quedã nobis videnẽ ꝑus annotãda: ⁊ ꝑ ꝙ qn auctores di/
cunt ꝙ actio vel motꝰ ꝓuenit ex victoria agẽtis ſupra paſ/
ſũ: ⁊ a ꝓporne maioris ieq̃litatis agẽtis ſupra paſſũ: illud
eſt intelligẽdũ/nõ cõparãdo potẽtiã actiuã agentis ad potẽtiã
actiuã paſſi: ſed cõparãdo potẽtiã actiuã agẽtis ad reſiſtẽtiã
illius: imo oĩs fere diuerſitas in motu ex eaꝝ ꝓportione
inſurgit. ſ. ex ꝓporne poe actiue agẽtis ad reſiſtẽtiã paſſi: ex hac
enĩ ſeqẽ ſucceſſio in motu: vt 4° phy. appet ex hac ẽt ve/
locitas ⁊ tarditas in motu: vt ex ſe notũ eſt: in via maxime
Ari. ſenſus igiẽ illiꝰ ꝓpõnis eſt ꝙ ex ꝓporne maioris ieq̃li/
tatis poe agẽtis: vl ex victoria poe actiue agẽtis ſupra reſiſtẽtiã
paſſi ꝓuenit oĩs actio: nec in hoc credo ſit aliqꝺ dubiũ.

❡ Scꝺo aũt: qꝛ de reſiſtẽtia ⁊ actiõe a nobis eſt nunc ſermo: iõ
de rõne ipſoꝝ aliq̃ videnẽ dicẽda: qꝺ ſint vnũqꝺqꝫ ipſoꝝ:
⁊ quõ dĩant: ⁊ de cõpatiõe ipſoꝝ adinuicẽ q̃ breuiori ſer/
mone poterimꝰ. De actiõe tñ ⁊ paſſione/qꝺ ipſa ſint: ⁊ quõ
coꝝ rõnes dĩant: nũc nõ diſputabimꝰ: ſatis. n. de ipſis/⁊ ab
Ariſto. diuerſis in locis: ⁊ ab auctore ſex ꝑncipioꝝ diſputa
tum eſt. Ad reſiſtentiã aũt cõuertemꝰ noſtrũ ſermonẽ: de
qua a nullo diſputatũ eſt ꝑter q̃ a Petro pompo. Mant.
qui fuit preceptor noſter: qui ſatis copioſũ ſermonẽ de
hoc habuit: ⁊ queſiuit nunqꝺ reſiſtere ſit agere: vl pati: vel
aliqꝺ aliud. ꝑmo. n. vĩ ꝙ reſiſtere ex vi vocabuli actionẽ
importet: ex alia vo pte vĩ magis paſſionẽ iportare: quia
ſemꝑ reſiſtẽtia attribuiẽ paſſo. multa hincinde adducuntur
ab eo que pñt videri in eius tractatu: nos tñ ea que nobis
videnẽ adducemꝰ. dico g ꝙ ſi de actiõe vel paſſione loq̃/
mur ꝓpe vt paſſio vel actio ꝓpe accipiunẽ: ⁊ vt dicũt ali/
quid poſitiuũ: vel aliquã formã in ipſo agẽte vel paſſo/ſic
formalr reſiſtere neqꝫ agere eſt neqꝫ pati: foꝛalr. n. ex ipſa
reſiſtẽtia nulla forma/nullus effectꝰ ꝓuenit in agente vel
paſſo/niſi ipedimẽtũ ⁊ ꝓhibitio actionis ipſiꝰ agentis in
paſſo: hoc aũt potiꝰ ꝑuatiuũ qꝺ eſt q̃ poſitiuũ: ſicut ẽt Ari.
in libro de ſomno ⁊ vigilia dicebat/ſomnũ eſſe priuationẽ
quãdaꝫ vigilie: qꝛ erat ligamentũ ſeu ipedimẽtũ ſenſuũ
cur nõ exeant in ꝓprias opatiões: dico tñ ꝙ in intellu reſi
ſtentie ſeu reſiſtere ſemꝑ icludiẽ rõ actionis vel paſſiõis:
neqꝫ. n. põt eẽ reſiſtẽtia: neqꝫ intelligi/niſi intelligaẽ aliqꝺ
agere in id qꝺ reſiſtit. ⁊ huiꝰ rõ eſſe põt: qꝛ reſiſtẽtia in ſui
formali rõne eſt ꝑuatiuũ: ꝑuatio aũt ſemꝑ hitũ ꝑſuppõit
⁊ per hitũ itellr: ideo dico ꝙ actio ⁊ paſſio nunq̃ poſſunt
abſolui ab itellu reſiſtẽtie: lꝫ aũt reſiſtere formalr ſit q̃dã
potiꝰ ꝑuatio q̃ aliqꝺ poſitiuũ: illud tñ qꝺ eſt cã reſiſtentie
ſeu per qꝺ reſiſtit ipſũ paſſũ eſt qꝺ poſitiuũ/⁊ forª in ipo
paſſo: calidũ. n. frigido reſiſtit per ſuã caliditatẽ: vñ dico
ꝙ ꝑcaſe idẽ realr eſt per qꝺ aliqꝺ agit in alterũ/⁊ reſiſtit
actioni alteriꝰ in ipſũ agere conãtis: loquẽdo tñ de actiõe
ſimplici ⁊ per ſe que nõ eſt cõplicata ex diuerſis motuum
generibꝰ: ſicut in pugna aĩaliũ accidit: alio. n. mẽbro ⁊ in/
ſtrumẽto aliqñ conanẽ ſe defendere: ⁊ alio offendere: ſed
hoc per accidens cõtingit: ſed in ſimplici alteratiõe ⁊ for/
ſitan etiã in ſimplici motu locali per qꝺ aliqꝺ agit per idẽ
etiã agẽti in ipſũ reſiſtit: ⁊ hoc poſſet inductione in oĩbus
declarari/qꝺ tñ nunc dimittimꝰ: qꝛ clariſſimũ vĩ: ſi autem
velimus actionẽ ⁊ paſſionẽ latiori vocabulo accipere: ita
vt nõ ſolũ actio cõprehendat poſitiuã actionẽ/ſed etiam
priuatiuã/quo mõ etiã poſſumꝰ corruptionẽ actionẽ ap/
pellare: corruptio. n. nõ dicit aliquã rem poſitiuam ſm ꝙ
corruptio ſed ſolaꝫ forme priuationẽ: ſimilr forſitan ſe hꝫ
diminutio: per diminutionẽ enĩ deꝑdiẽ aliqꝺ prehabite
quãtitatis/nihil vo noui acquiriẽ: hoc mõ poſſumus ipſaꝫ
reſiſtentiã ad pñtẽ actionis reducere: eſt. n. quedaꝫ actio
priuatiua: lꝫ. n. reſiſtens inquãtũ reſiſtens nõ agat aliquid
poſitiuũ ꝓprie in ipſũ agens: prohibet tñ q̃tũ in ſe eſt
actionẽ agentis: hoc igiẽ modo dicere poſſumus reſiſten/
tiam eſſe actionẽ: ⁊ reſiſtere agere ⁊c.

❡ Eſt vnum ꝑterea aduertendũ ꝙ duplr põt aliqꝺ alteri
reſiſtere. ſ. ſimplr vel ſm quid: ⁊ ſic duplex eſt reſiſtẽtia. ſ.
ſimplr ⁊ ſm quid: ſimplr reſiſtere dicitur aliquid: qñ ex
toto prohibet ⁊ impedit actionẽ agentis/ne ab eo altereẽ:
ſm quid aũt quãdo nõ poteſt ex toto impedire vel prohi/
bere actionẽ: ſed q̃tũ põt retardat: ⁊ hoc mõ omne qꝺ pa
titur reſiſtit: qꝛ vel ſimplr reſiſtit ne in ipſũ agaẽ vel ſm
qꝺ: qꝛ ſaltẽ retardat actionẽ ipſius agentis: ⁊ ex hoc naſciẽ
ſucceſſio ⁊ cõtinuitas in motu.

❡ Eſt ẽt ꝯſiderãdũ ꝙ ſi cõparemꝰ res diuerſoꝝ reſiſtentium ad
actiuitatẽ (vt ita dicã) mihi vĩ dõm ħ mõ ꝙ vnũ ⁊ idem
põt dici altero magis ⁊ minꝰ actiuũ: ſilr magis ⁊ minꝰ reſi
ſtitiuũ cõpatũ tñ ad diuerſa: ſi tñ velimꝰ cõpare actionẽ
vniꝰ ad eiuſdẽ reſiſtẽtiã: ſic credo qꝺ vnũqꝺqꝫ ſit magis actiuũ
q̃ illud idẽ ſit alteri reſiſtitiuũ: loquẽdo de reſiſtẽtia ſimplr nõ
de reſiſtẽtia ſm qꝺ: qꝛ nũq̃ reſiſtẽtia ſm qꝺ abſoluiẽ a paſſione in
ꝯrijs: vñ loquẽdo de reſiſtẽtia ſm qꝺ qꝺlꝫ eſt magis reſiſtitiuũ
q̃ actiuũ: paſſũ. n. in vera actiõe ⁊ motu nunq̃ penitꝰ talẽ
reſiſtẽtiã põt ꝑuari donec moueẽ/quãtũcũqꝫ ſit debile: cũ. n. nõ
ampliꝰ reſiſtit ceſſat motꝰ ⁊ actio ⁊ ſucceſſio: ſed ſenſui eſt
manifeſtũ de reſiſtẽtia ſimplr qꝺlꝫ eſſe magis actiuũ q̃ reſiſti/
tiuũ: videmꝰ. n. multa que pñt agere in alterũ: nec pñt tñ
ex toto ſe defendere/qn ⁊ ipſa patianẽ ab eodẽ: ħ aũt non
eſt alia de cã: niſi qꝛ agẽs nãle fortiꝰ eſt in agẽdo q̃ in reſi/
ſtẽdo: ⁊ iõ lꝫ ex toto nõ poſſit alteri reſiſtere/põt tñ in ipſũ
agere. Nõ tñ credimꝰ ħ ſꝑ de necẽitate in oĩ actiõe ꝯtingere

ꝙ.ſ.paſſuʒ poſſit reagere in ipſm agēs: lʒ.n. vnūqōqʒ agēs nāle ſit mīn⁹ reſiſtiuū q̄ȝ actiuū: nō tñ neceʒ eſt ꝙ reſiſtentia agētis ſp̄ ſit minor q̄ȝ actiuitas paſſi: ⁊ ñ ſi capillus in ignē ꝓijciat magnū, nō credim⁹ ignē a capillo refrigerari: qꝛ lʒ ignis ſit mīn⁹ reſiſtitiu⁹ q̄ȝ actiu⁹: nō tñ eſt mīn⁹ reſiſtitiu⁹ q̄ȝ capillus actiu⁹: ⁊ hoc ɔtingit ex magna ꝓportione taʒ in q̄titate q̄ȝ in gradu: quā hʒ magn⁹ ignis ſupra capilluʒ. neqʒ in h̄ ɔuenim⁹ cū his qui volūt ꝙ ſp̄ īter ɔ̄ria ſit actio ⁊ reactio: vt vʒ voluiſſe Hentiſber: nam h̄ vʒ eſſe ɔ̄triū Ari. p̄ de gn̄ōne ⁊ corruptiōe locis ſepi⁹ adductis. vbi ait, ꝙ ſi alterū ɔ̄trariorū tm̄ agat ⁊ alteruʒ tm̄ patiaꝝ: tūc nō fit mixtio: ſʒ alteri⁹ gn̄atio ⁊ alteri⁹ corruptio: ecce ꝙ ɔ̄cedit Ari. aliq̄n ita accidere vt vnū ɔ̄triuʒ tm̄ agat ⁊ nihil repatiaꝝ. Si aūt nō ſit exceſſus valde magn⁹ agentis reſpcū paſſi, tūc ſemp̄ ſeq̄ꝝ reactio patiētis ad agens: ⁊ hoc ea de cā accidit: qꝛ agens nāle fortius eſt in agendo q̄ȝ ſit in reſiſtendo: ⁊ ideo lʒ ipſuʒ agens vincat ipſuʒ paſſum: cum hoc tñ etiā quodāmō vincitur ab eodem.

¶ Sed hic diceret forſitan aliqs: hoc qd̄ a nobis dictū eſt, valde eſt dubiū ⁊ q̄ſi videnꝝ īuicē pugnare nr̄a dicta: nō eniʒ vʒ rōnale neqʒ veriſil'e: ꝙ agēs eodē inſtr̄o agat ⁊ reſiſtat: loquēdo in ſimplici altera°: ⁊ ſm vlt̄ᵐ ſiti poſſe agat ⁊ reſiſtat: ⁊ tñ ꝙ forti⁹ agat q̄ȝ reſiſtat re͞ⁿ eiuſdem. ſi.n. aq̄ in ignē p̄ frigiditatē agit, ⁊ eidē ēt p̄ frigiditatē reſiſtit: nō videꝝ imaginabile q̄uō poſſit aqua fortius agere q̄ȝ reſiſtere.

¶ Hoc dubiū vʒ mihi tangere punctū ⁊ eſſentiā iſti⁹ mā̄e: Jō rn̄deo ⁊ dico, ꝙ lʒ ideʒ ſit inſtr̄m quo agēs agit ⁊ reſiſtit, aliā tñ rōneʒ hʒ ſm ꝙ agit, ⁊ aliā ſʒ ꝙ reſiſtit: agēs.n. inq̄ȝtū agēs ſolū hʒ rōnē act⁹ vt ēt fateꝝ Ari. 3° phy. inq̄ȝtū aūt reſiſtēs dicꝝ rōnē actus iuncti po°: ſemp̄.n. in rōne reſiſtendi icludiꝝ reſpect⁹ ad alterū, qd̄ hʒ nāʒ agēdi in ipſuʒ: hoc v̄o nō accidit niſi ex po° que actui agētis ſil' eſt coiuncta: vñ agētia in mālia que carēt oi po° nō dicunꝝ ꝓp̄e reſiſtere: celuʒ.n. nō reſiſtit igni vel iſtis iferiorib⁹: qꝛ ab eis pati nō pōt: ⁊ iō ſp̄ reſi° ſe tenet ex p̄te paſſi vt ſupius etiā dixim⁹: ⁊ iō in reſi° duo icludunꝝ, rō act⁹: nō.n. reſiſtit niſi qd̄ eſt in actu: qd̄ v̄o eſt in pura po°, vt mā p̄ᵃ nulli reſiſtē pōt, ſm q̄ eſt in po°: icludiꝝ ēt rō po° in ipſa: qꝛ ſp̄ ſe tenet ex p̄te paſſi: rō aūt patiēdi eſt po°: ⁊ vt dixim⁹, in rōne reſiſtentis ſp̄ icludiꝝ reſpect⁹ ad alterū qd̄ hʒ nāʒ vt in ipſum agat: hoc aūt nō ꝓuenit niſi q̄a eſt in po° ad illd̄. His itaqʒ ſuppoſitis facile appet ſol'o ad dubitationē: cū.n. agens inq̄ȝtuʒ agēs ſimpl'r hēat rōneʒ act⁹: ⁊ ois pfectio ⁊ fortitudo rei ſit rōne act⁹: impfectio v̄o ⁊ debilitas rōne po° ⁊ in rōne agētis vt ſic nulla icludaꝝ rō po°: in rōne aūt reſiſtentis ſp̄ ſit ānexa rō po°: ideo nō eſt mirū ſi vnūqōqʒ fortius ſit in agēdo q̄ȝ in reſiſtēdo: lʒ vno ⁊ eodem inſtr̄o ſil' agat ⁊ reſiſtat: ⁊ hāc credimus fuiſſe clarā ⁊ indubitatā opīonem peripatheticorū illuſtriū: ⁊ maxīe Ari. 3° phy. ⁊ p̄ de gn̄ōne. vbi nullaʒ aliā reddidit cāʒ, cur paſſuʒ poſſit reagē in ipʒ agēs: niſi q̄a agēs ſil' eſt in actu ⁊ po°: lʒ nō re͞ⁿ eiuſdeʒ: ⁊ iō ēt ſoluʒ attribuit reactionē agēti qd̄ cōicat in mā cū paſſo: dicit.n. ꝙ agit inq̄ȝtuʒ eſt in actu: patiꝝ v̄o inq̄ȝtū eſt in po°: q̄ſi dicat inq̄ȝtū eſt in actu vincit. ſʒ inq̄ȝtū hʒ po°ᵉʒ ānexam vinciꝝ ⁊ ſupaꝝ ab ipſo paſſo: ⁊ hac rōne non pōt tantū reſiſtere q̄ȝtū agit: ex po°.n. annexa debilitaꝝ ⁊ īpficiꝝ: ⁊ iō vbi nō ē po° ibi ēt nō ē reſi° neqʒ reactio: vt in his q̄ mā carēt.

¶ Sed dices ſtatim cōtra inter intelligentiā ⁊ celū eſt reſi

cō. 63. ⁊ 71. ab Auer. pōt colligi: qꝛ inter celuʒ ⁊ intelligētiā talis eſt ꝓportio: ꝙ celuʒ eſt aptū tali ⁊ tāto motu ab īntelligentia moueri: ⁊ intelligētia pōt ipʒ tanto ⁊ tali motu mouere nec velociori poſſet ipſm mouere: que ꝓportio ſi variareꝝ nō poſſet itelligētia mouere aut tardi⁹ moueret: nō aūt ꝙ celuʒ ɔ̄triēꝝ ⁊ querat ipedire vl' ꝓhibere ne moueaꝝ ab intelligētia ſicut in iſtis iferiorib⁹ accidit: q̄re alio mō eſt reſiſtentia hic, ⁊ ibi ⁊ ſm aliam rationeʒ: vt ſatis in via peripathetica eſt manifeſtum.

¶ Iſtis aūt ſic declaratis facilis eſt ſol'o ad p̄ᵐᵃᵐ rōnē q̄ fuit Bur. lʒ iudicio meo ab ipſo nō recte ſoluaꝝ. dico igitur ꝙ nō eſt incōueniēs ꝙ duo agētia quorū vtrūqʒ ſit eq̄le alteri in agēdo ⁊ eq̄le alteri in reſiſtēdo, inuicē agāt ⁊ patiāꝝ: ſil'r ꝙ duo quorū alterū in agēdo ſit potētius altero, ⁊ in reſiſtendo: ⁊ tñ a debiliori patiatur: niſi ſit exceſſus magnus vni⁹ ad alterū, vt ſupra fuit declaratuʒ: nec tñ ex hoc ſeq̄ꝝ ꝙ a ꝓportiōe minoris ineq̄litatis vel a ꝓportione eq̄litatis ꝓueniat actio. Et rō eſt: qꝛ actio ꝓuenit vt ſupius declaratū fuit ex ꝓportiōe actiuitatis agētis ad reſiſtētiā patientis: nō aūt ex ꝓportiōe actiuitatis vni⁹ ad actiuitateʒ alterius: in vtroqʒ aūt caſu ſi cōparaꝝ actiuitas vni⁹ ad reſiſtētiaʒ alteri⁹ inueniēꝝ ꝓportio maioris ineq̄litatis, ⁊ iō pōt eſſe actio ⁊ reactio: qꝛ qd̄lʒ ipſorū eſt mīn⁹ reſiſtitiuū q̄ȝ ſit actiuū, ⁊ ideo reſiſtentia vtriuſqʒ pōt ſuperari ab eorūdē actiuitate: vt pʒ diligenter ɔ̄ſideranti ea que dicta ſunt ſuperius: ⁊ hec ſatis ſint q̄ȝtū ad p̄mā rōnem.

¶ Unū tñ eſt hic aduertenduʒ ꝙ q̄ñ dicimus aliq̄d magis eſſe actiuū q̄ȝ reſiſtitiuū hoc in bono ſenſu itelligēdū: qꝛ.ſ. aliq̄d pōt in aliud agere ipſm corrūpendo: ⁊ tñ non pōt ex toto illi⁹ reactionē ꝓhibere: ⁊ adeo reſiſtere vt ab eo ēt nō patiaꝝ ⁊ altereꝝ: hoc aūt dixim⁹: qꝛ formal'r reſi°, vt ſupi⁹ dixim⁹ eſt q̄d p̄uatiuū: actio v̄o poſitiuū: cōiter v̄o ſolet teneri maxīe a calculatorib⁹: vt pʒ p̄ tra° de inten°ᵉ ⁊ remiſſione a Calcu°ᵉ. p̄uatiuū nō eē poſitiuo cōpabile ſʒ magis ⁊ mīn⁹. ⁊ iō in bono ſenſu dcā nr̄a itelliganꝝ vt diximus.

¶ Ad arg͞ᵐ aūt difficile Calcu°ⁱˢ a varijs diuerſimode ſolutuʒ eſt rn̄deri: ego v̄o ita rn̄derē: p̄ ſupponēdo vnuʒ, qd̄ ex Ari. ⁊ Com. colligi pōt 5° phy. circa p̄n͞ᵐ. ⁊ 7° ēt eiuſdem in p̄n°. ꝙ in quolʒ motu eſt repire aliq̄d cui p̄mo ⁊ p̄ ſe talis mot⁹ attribuiꝝ ſiue de mouēte loq̄mur, ſiue de eo qd̄ moueꝝ: tale aūt eſt id qd̄ mouere vel moueri dꝛ, nō per aliud aliq̄d illi accn̄s, vel qꝛ ei⁹ aliq̄ p̄s moueat vel moueaꝝ: ſed ipſm totū per ſe p̄ mouere vel moueri dꝛ: ſicuti. v̄. g. dicim⁹ ꝙ aer circūdans corpa nr̄a nos ɔtinue alterat vt eſt medicorum mīa: ⁊ maxīe Auicē. p̄° p̄mi. c. de etatib⁹. ⁊ 2° ēt primi: ſil'r aqua piſces: nō tñ eſt credendū ꝙ tot⁹ aer p̄ ⁊ per ſe, ⁊ quelʒ ēt ei⁹ p̄s ſil' nos alteret: ita vt tota ſphera aeris ad h̄ cōcurrat: hoc.n. nō eſt veriſil'e: cū.n. ſit tāte q̄ȝtitatis in tanta ꝓportiōe nos excedit qd̄ cito nos corrūperet, ſi aer ſm totū ageret: ſʒ eſt aliq̄ certa ⁊ determinata aeris portio que p̄mo agit in corp⁹ nr̄m: ita ꝙ ſm ſe totū agit: ⁊ ſm q̄lʒ ei⁹ p̄tē: ſil'r ēt dico ꝙ ſi ſit aliq̄d qd̄ in aerē agat ſicut exempli gr̄a aliqs ignis vtputa candela nō eſt tot⁹ aer qui ab igne candele patiꝝ: nō.n. eſt veriſil'e qd̄ parui ignis actio per totaʒ ſpherā aeris poſſit diffūdi: ſʒ eſt q̄dā p̄s aeris que p̄ ⁊ ſʒ ſe totā patiꝝ ⁊ alteraꝝ: ⁊ qd̄ dixim⁹ in iſtis in oi etiā alio motu eſt repire: in oib⁹.n. eſt repire qd̄ p̄mo mouet ⁊ qd̄ p̄mo moueꝝ: ⁊ tali ɔ̄nīe ⁊ p̄mo mot⁹ attribuiꝝ: partib⁹ aūt non

mouet᷑. Et rõ eſt: qꝛ totũ ipm.a. eſt illḋ qḋ p̄mo ⁊ per ſe dĩ agere in.b. ⁊ totũ ēt.b. reagere dĩ in.a. ptes vͦ tam.a. q̃z.b. agũt actiõe toti⁹ ⁊ ei⁹ motu mouẽt: cum igit᷑ totũ.a. p̄mo ⁊ p̄ncipal'r reſpiciat ipm.b. ⁊ p̄ª ⁊ p̄n^{li} intẽtione agat in.b. q̃lz etiã ei⁹ pars p̄ ⁊ p̄ncipal'r aget in.b. qꝛ nõ agũt niſi actione toti⁹. ⁊ h̄ eſt verũ: tñ de pte repaſſa ipſi⁹.a. q̃z de parte non repaſſa: vñ ſilr ps nõ repaſſa p̄ ⁊ p̄ncipal'r reſpicit ipm.b. ⁊ ipm alterare ⁊ corrũpe nitit᷑ ⁊ in ipm p̄ncipal'r agit: nõ reſpicit aũt aliã ptẽ repaſſã.ſ. ipm.c. niſi ſcd̄ario: ſed.b. ecõuerſo ſe h̄z: qꝛ p̄ ⁊ p ſe reſpicit.c. ptẽ repaſſaz atq3 in ipſam p̄ ⁊ p̄ncipal'r agit: qꝛ ei obycit᷑ tanq̃ p̄^{m} ⁊ adeq̃tũ eius paſſuz vel mo^{le}. nõ.n. ei⁹ actio diffundit᷑ niſi per.c. ptẽ: cũ igit᷑ pars nõ repaſſa.a. nõ reſpiciat.c. niſi ſcd̄ario.b. vͦ p̄ ⁊ p ſe reſpiciat ipm.c. ide eſt ꝙ.b. põt alterare.c. ⁊ ꝓpriã q̃litatez in ipm itroducere: alia aũt ps.a. vel agere nõ põt vl' ſi põt agere: actio tñ ipſi⁹.b. ꝓualet ⁊ ſupat actionẽ alteri⁹ ptis.a. ⁊ ideo põt.b. ꝓpriã q̃litatẽ per certũ tp̄s in.c. itroducẽ cõſeruare ⁊ intẽdere: ⁊ alia ps.a. que nõ eſt repaſſa h̄ efficere nõ põt: ſed tantũ reſiſtit q̃ntũ põt actioni ipſi⁹.b. ⁊ adiuuat c. ptẽ: vñ lz aliqñ ita ſit ꝙ ps nõ repaſſa ſit maior ⁊ potentior q̃z ſit.b. paſſuz ſimpl'r ⁊ abſolute: qꝛ tñ.b. p̄ ⁊ p̄ncipal'r agit in.c. Et ps alia nõ repaſſa.a. non agit niſi ſcd̄ario in.c. ideo hac rõne actio.b. ꝓualet actiõi alteri⁹ ptis: ⁊ hac rõne reddit᷑ ea potẽti⁹: ⁊ ob id ea q̃litas ſolũ intẽdit᷑ in.c. q̃ a.b. in ipm eſt introducta: ideo arg^{m} nihil cõcludit vt pȝ.

¶ Sȝ dicet aliqs/ hoc nõ vĩ veriſilẽ ꝙ.a. reſpiciat p̄.b. paſſuz: ⁊.c. ꝓpriã ei⁹ ptẽ ſcd̄ario: vnũqḋq3.n. vĩ magis intẽtuȝ ꝓpe ↄſeruationi/ q̃z deſtructioni alteri⁹. cũ igit᷑ p actionẽ.a. in.c. ei⁹ ptẽ ↄſeruet᷑.a. in ꝓpria ei⁹ nã ⁊ diſpõne/ vĩ qḋ p̄us debeat reſpicere.c. ptẽ q̃z.b. paſſuz. ¶ Ad hoc rñdet᷑ negãdo arg^{m}. Et rõ eſt: qꝛ alteratio.c. fcã eſt ab ipſo.b. ⁊ ab ipſo cõſeruat᷑: ⁊ dũ ſtat.b. in ꝓpo vigore/ difficile eẽt eã remouere: qꝛ vt dixi ab eo ↄſeruat᷑ ⁊ fouet᷑: debilitato vͦ.b. vel ex toto corrupto.b. facil'r diſpõ in.c. itroducta põt remoueri: qꝛ nõ adeſt aliqd qḋ ipſaz ↄſeruet: ⁊ iõ p̄us nitit᷑ agere ⁊ deſtruere po^{us} ⁊ v̄tutẽ.b. q̃z reducere.c. ad p̄^{as} for^{am}. dixi ãt debilitato vl' corrupto: aliqñ.n. ſil' ⁊ ſemel corrũpit᷑ q̃litas que eſt in paſſo: ⁊ que eſt ab ipſo itroducta in ipm agens: ⁊ hoc ideo qa lz agẽs aliq̃ mõ repatiat᷑ a paſſo: tñ multo magis agit ⁊ alterat paſſuz q̃z ab ipo alteret᷑: vñ ↄti^{e} decreſcit ⁊ diminuit᷑ virt⁹ ipſi⁹ paſſi magis q̃z virt⁹ agẽtis: ⁊ eius ꝓportio re^{a} agẽtis. vñ tandẽ ad illũ g^{m} deuenit vt nõ amplius poſſit in ipm agẽs reagere: ⁊ tunc ſil' ipm remittit᷑ ⁊ q̃litas ab ipſo in agẽs itroducta. ¶ Sȝ dicet aliqs hec rñſio apparentiã aliquã hẽt in agente cognoſcẽte: ſȝ in nãli agente qḋ nõ cog̃ſcit nõ vĩ h̄ veriſilẽ. ¶ Ad h̄ rñdit Com. ex intẽtiõe Tbe. 12. meta^{ce}. ↄ^{to}. 18. ꝙ nã lz nõ cog̃ſcat: dirigit᷑ tñ a virtute cognoſcente in eius operationib⁹: quare pȝ ſolõ ad ſcd̄m argumentũ qḋ eſt difficilius in hac mã.

Ad 3^{m} ¶ Ad 3^{m} vͦ ar^{m} qḋ poti⁹ ẽ p̄oris ↄfirmatio rñdet᷑ ꝙ in illo corpe me^{o} ex actiõe vtriuſq3 itroducet᷑ q̃dã q̃litas remiſſa media q̃ vtriq3 cõpata hẽbit rõnẽ alteri⁹ ↄ̃ry/ rõne cui⁹ poterit in vtrũq3 agere: ⁊ rõne ei⁹ ſaluabit᷑ actio ⁊ reactio/ vt ex ſe clax eſt: declinabit tñ ad lat⁹ agẽtis fortioris vt pȝ.

Ad 4^{m} ¶ Ad 4^{m} aũt arg^{m} negat᷑ illa ↄña/ ita vl'r.ſ. ꝙ nullũ agens data reactiõe poſſȝ pfecte ſibi paſſuz aſſilare. Qꝛ aliqñ qdẽ hoc ſit verũ ↄcedim⁹.ſ. ꝙ agẽs pp reactionẽ nõ põt pfecte aſſilare paſſuz ⁊ ipm reducẽ ad illḋ g^{m} ſub q̃ ipȝ erat anq̃ incipet actio: imo h̄ expſſe ↄcedit Ari. vt põt facile elici ex ei⁹ dictis 4° de gn̄õne aialiũ loco ſepi⁹ citato. Qꝛ tñ h̄ ſit vl'r ⁊ ſp vex negam⁹: vñ ſi virt⁹ ipſi⁹ paſſi tãta ſit/ vt in totuȝ agẽs ⁊ q̃ualȝ ei⁹ ptẽ poſſit reagere/ ⁊ ipſi⁹ qualitatẽ remittere: ſic dico ꝙ nunq̃ poterit perfecte paſſuz aſſilare/ ⁊ ipm ad g^{m} ſummũ reducere: niſi ab alio agẽte adiuuet᷑: qa nihil agit vltra ꝓpriũ g^{m} vt arg^{m} ꝓbat: nec ẽt tenemus ꝙ aliqd ſeipm poſſit ab itrinſeco alterare: qꝛ ſi nõ totũ agẽs repatiat᷑ ⁊ remittat᷑: ſȝ aliq̃ ei⁹ ps remaneat in ꝓpa nã: vt in caſu ſcd̄i arg^{ti} declarat᷑ tũc poterit paſſuz ſibi perfecte aſſilare ⁊ deducere ad g^{m} ſummũ: pars.n. que non repatit᷑ alias ptes repaſſas reducet ad p̄mã diſpõnez: ⁊ h̄ mõ paſſuz pfecte agẽti aſſilabit᷑. Hec igit᷑ ſint ſatis q̃tũ ad hanc ptẽ huius mãe de actione.ſ. ⁊ reactione que contingere ſolent in motu alterationis.

De motu localí.

Sed pro pfecta hui⁹ rei reſolõne adhuc q̃daȝ pauca ſunt dicẽda de alys g̃nib⁹ mot⁹.ſ. motu localí ⁊ augmẽtationis: nõ.n. ſoluȝ voluere peripathetici reactiõeȝ eẽ in motu alterationis/ ſȝ in quolȝ gñe motus qñ mouẽs ⁊ motũ in mã cõicant: vt licet videre in locis iã ſepius citatis apud Ari. Auer. ⁊ alios: ſed max^{e} 4° de gn̄õne aialiũȝ. ca. 3. vnde dicebat Auer. ↄ^{to}. 53. p̄mi de gn̄õne. ꝙ ſi agẽs nõ cõicat in mã cũ paſſo nõ patit᷑ ab eo eodẽ mõ ſȝ quẽ agit/ ꝙ ſi cõicat in mã neẽe eſt vt patiat᷑: in quolȝ ergo agẽte h̄ verificat᷑. difficile aũt eſt videre quõ h̄ vex ſit in augmẽtatiõe ⁊ in motu locali maxie elñtox/ vt ſupius ẽt tetigim⁹: ⁊ eo difficili⁹ ꝙ nihil inuenim⁹ de h̄ dcm̃ ab ãn nos: de aug^{ne} qdẽ ſimpl'r nihil: de motu aũt locali iudicio qdeȝ meo ipfecte: naȝ de eo motu locali q violentus eſt ex toto ſicut qñ vaſa ↄ̃ ſe inuicẽ lata ambo frãgunt᷑ ⁊ duo gladỹ/ ⁊ ſilia: qui qdeȝ mot⁹ ſimpl'r ſũt ab extrĩſeco/ poꝫes multa dixere: de motu aũt ſimplici qui ꝓuenit ab ipſis elñtis nihil ſcriptũ eſt: vtputa ſi ſit aliqḋ cõpoſitũ ex igne ⁊ terra: ita vt aliquãtuluȝ vincat ignis ⁊ trahat ſecũ terrã: nunqd terra poſſit reagere actiõe poſitiua in ipm ignẽ. nã ſi qdeȝ hoc negauerim⁹ vĩ ↄ̃ Ari. ⁊ Com. locis ſepi⁹ citatis. tunc.n. in motu elñtox nõ poterit eẽ reactio. Si vͦ cõceſſerimus terrã reagere in ignẽ: tunc nõ poſſum⁹ effugere h̄ incõueniẽs/ ꝙ ideȝ mouebit᷑ motib⁹ ſimpl'r ↄ̃rys.ſ. aſcẽſu ⁊ deſcẽſu: ignis.n. inq̃tũ ſecũ terrã trahet ſurſuȝ aſcẽdet: ſi aũt repatiet᷑ a terra/ deorſuȝ ab ipſa trahet᷑ qḋ vĩ penit⁹ eẽ ipo^{le}: res videt᷑ habere aliquã difficultatẽ/ vt claruȝ eſt.

¶ De augmẽtatione ẽt nõ vĩ quõ poſſum⁹ ſaluare ꝙ agẽs qḋ auget ipm repatiat᷑. cũ.n. tale agens ſit duplex: vt 2° de aia. ⁊ p̄ de gn̄õne pȝ: p̄^{m} qdeȝ aia vl' ei⁹ virt⁹: 2^{m} vͦ ⁊ inſtrumẽtale ſit calor nãlis/ neq3 aia/ neq3 calor nãlis vident᷑ diminui dũȝ augẽt nr̃m corp⁹. quõ g̃ ſaluabim⁹ verã ⁊ poſitiuã reactionẽ in motu augmẽtatiõis ſm idem gen⁹ mot⁹.

¶ Res hec nob̃ ſatis vĩ difficilis/ eo magis qḋ de h̄ a p̄oribus/ aut pax aut nihil eſt ſcriptũ: nos tñ ea que nobis vident᷑ nũc recitabim⁹/ poti⁹ ꝓbabil'r q̃z obſtinate aſſerẽdo: nos ſp ſubyciẽdo caſtigatiõi eox q acutioris ⁊ ſanioris ſũt iudicy. Dicim⁹ igit᷑ breuiter relictis difficulta^{bus} q̃ poſſent hicinde adduci circa p̄ntẽȝ mãȝ ⁊ deueniẽdo ad punctũ: p̄mo q̃tũ ad motũ localeȝ q ab elñtis nãl'r ꝓuenit ꝙ ſi recte volum⁹ ↄſiderare ſepe videbim⁹ in eo rõnẽ reactiõis ſaluari. ¶ Pro cui⁹ declaratiõe eſt p̄ aduertẽduȝ ꝙ non ſp inter agẽs ⁊ patiẽs eſt actio ⁊ reactio/ vt ex intẽtiõe Ariſt. declauim⁹ ſupi⁹: aliqñ.n. agẽs adeo ſupat ⁊ vincit paſſuȝ: vt lȝ paſſuȝ q̃tũ põt ei reſiſtat/ nõ tñ põt reagere in ipſuȝ agens: vt declarãt ẽt qdã ex recẽtiorib⁹. vñ ad h̄ vt fiat reactio: opȝ vt iter agẽs ⁊ paſſuȝ ſit d̄termiata q̃dã ꝓportio. ¶ Scd̄o eſt aduertẽduȝ ꝙ iter mixta ex elñtis eſt duplex dña: quedã.n. ſũt mixta pfecta q̃ ſũt reducta ad vnã for^{am} pfectã/ ⁊ ipſa elñta ſũt tal'r ordiata ⁊ diſpoſita/ vt vnum ſe hẽat tanq̃ for^{a} alys dominãs: alia vͦ lȝ in actiõe illius aliq̃ mõ iſti reſiſtãt/ nõ tñ ↄ̃ opant᷑ neq3 eſt pugna iter ipſa: vñ videm⁹ ꝙ oĩa iſta in motu recto eodẽ mõ mouent᷑ q̃ elm qḋ in eis dñat᷑ ⁊ in eis hȝ rõnẽ for^{e}/ mouet᷑: neq3 in tali motu eſt in eis pugna poſitiua: lȝ ſit priuatiua: eſt.n. aliq̃ in eis reſi^{a}: vñ dĩnt ſolũ talia mixta ab elñto ſimplici in motu ꝙ illa duplicẽ hñt reſiſtentiã intrinſecã ⁊ extrĩſecã: elñtuȝ vͦ extrinſecaȝ tñ vt põt hẽri 4° phyſi. in motu igit᷑ iſtox: qa elñta alia ex toto ſubſunt dominio elementi dominantis:

ideo in eis nō apparet reactio manifeſta. Alia autem ſunt mixta impfecta vt ſunt multa ex metheorologicis/in qb9 nō eſt pfecta mixtio/nec ſunt pfecte ad dñium vni9 elnti re dacta ⁊ ad vnā formā:iō inter elnta ex qb9 talia mixta cō ponunt eſt ɔtinua pugna: vt docet Ariſ. ⁊ Com. p metheo. vbi declarāt q̄re hō mixta tranſuerſalr mouent ſm plīm: dicūt.n.ꝙ ex pugna que eſt iter pn° ex qb9 cōponūt in mo uendo/neqȝ pñt ſimplr aſcēdere, neqȝ ſimplr deſcēdere: ſed mouent ſm trāſuerſum:talis aūt mot9 trāſuerſalis eſt mot9 cōpoſit9 ex nāli ⁊ violēto.ſ.ex aſcēſu ⁊ deſcēſu:quoꝝ vnū eſt illis elntis nāle: alterū vō violētū.in iſtis g̃ appet manifeſta reactio:q2 vnū elntū nō adeo vincit aliud vt oī actiōe ipm ſpoliet.inq̄tū g̃ iſta trāſuerſalr mouent ptim aſcēdūt ⁊ ptiȝ deſcēdūt:vincit tn̄ vel aſcēſus vel deſcēſus ſm ꝙ leuia vel grauia ſūt potētiora. ex h igit pȝ qualr in vero motu locali/q fit a motore p ſe ⁊ itrinſeco/poſſit acci dere reactio.nō tn̄ ſeqt ꝙ moueat motib9 ɔ̄rijs, vt clarūȝ eſt:nō.n.ſimplr talis motus pōt dici aſcēſus, neqȝ ſimplr deſcēſus:ſȝ quodāmō eſt q̄ſi mediū ex vtroqȝ cōpoſitū.

De motu augmētationis. ¶ De augmētatiōe ēt dicim9 ſilr ꝙ in ea pōt rō reactionis ſaluari ſi recte iſpiciam9 lȝ difficili9 aliquāto vbi pmo eſt cōſiderādūȝ ꝙ ſicut teſtis eſt Ariſt. 2° de aīa.t.cō.45.⁊ p de gnōne.t.cō.53.⁊.4.qn̄ dicim9 agēs in agēdo repati, non hoc eſt itelligēdum de q̄lȝ agēte ēt corporeo/ꝙ repatiat a paſſo/loquēdo de reactiōe ſm ideȝ gen9 mot9. lȝ.n.oē mo uens corporeū ſit mobile: nō tn̄ eſt neceſſe ꝙ eodeȝ motu moueat quo mouet:pm.n.mouēs in q̄lȝ motu, lȝ corporeū ſit:nō tn̄ neceſſe eſt vt dū mouet eodē gn̄e mot9 moueat q̄ mouet:celuȝ.n.qō eſt pm alterās ipȝ nō eſt alterabile q̄uis alio motu ſit mobile:agēs aūt vltm ⁊ pxim eodē gn̄e mot9 eſt mole q̄ mouet:⁊ tale in agēdo a paſſo repatit: vn̄ Ari. p de gnōne loco nup citato ſic ait:pm qdē mouēs in motu ni hil phibet eē imole.in qbuſdā aūt eſt ēt neciūȝ: vltm auteȝ ſemp mouē motū.in actiōe aūt pm qdeȝ ipaſſile:vltm vō ēt ipm patiēs.que vba Comt exponēs ſic ait. Et ſciēdū eſt ꝙ agēs bipartitū eſt ſic mouēs: qm̄ in vtroqȝ eſt pm ⁊ vltm:⁊ ſicut pm mouēs poſſile eſt vt ſit imole:⁊ poſtremū mouens nec̄e eſt vt ſit motū. ⁊ paulo infra ſic ait. ⁊ cā in h eſt/qm̄ qōcūqȝ agēs/cui9 mā nō fuerit eadeȝ cū mā patiētis/nec̄e eſt vt nō patiat ab illo eo mō ſm quē agit: ⁊ qōcūqȝ agēs habuerit eādeȝ māȝ neceſſe ⁊ vt patiat ⁊c̄. vera igit rō re actiōis attēdi dȝ penes agēs vltm ⁊ imediatū. vnde in fine illi9 tex. dic̄ Ari.ꝙ cib9 in faciēdo ſanitatē repatit a corpe: q2 eſt vltm ⁊ tangēs. ¶ Eſt ēt 2° ɔſiderādūȝ ꝙ in augmē tatiōe/rō efficiētis ⁊ motoris ꝑꝑc aīe ⁊ v̄tuti ei9 attribuit tanq̄ꝫ pmo ⁊ pn̄ll agēti:calori aūt nāli tāq̄ꝫ agenti inſtrāli ⁊ ſcōario/vt declat Ari. 2° de aīa.t.cō.49.⁊.50. in nullo autē iſtoꝝ pt ſaluari reactio in eodē gn̄e mot9: neqȝ.n.aīa neqȝ calor nālis/dūȝ augēt diminuitur. Et rō eſt: q2 aīa qdē eſt in tali motu pm mouēs qō nō eſt nec̄e moueri in mouēdo: calor ēt nālis dūȝ auget corp9 ipm nō diminuit:ſed ex tali augmēto poti9 vigorat ⁊ creſcit. Sȝ hic eſt ɔſiderādūȝ ꝙ calor iſte pmo qdē ⁊ p ſe mouet motu alterationis.calefa cit eniȝ ⁊ digerit: vt 2° d aīa pt colli loco citato:⁊ alterādo auget ⁊ nutrit:vn̄ lȝ ipſe ſit oluȝ iſtoꝝ motuū pn̄m:nō tn̄ in eis eodē mō ſe hȝ.naȝ in alterādo nō idiget aliq̄ extriſeco quo mediāte agat:ſȝ tn̄ ſeipſo agit:q2 calor eſt: ⁊ q2 ēt nā

duplex.ſ.nutrimētuȝ:⁊ q2 nutrimētū nec̄e eſt digeri ⁊ con coqui qō non fit niſi auxilio caloris:iō necīus ēt eſt calor. ⁊ pmo de gnōne dicebat Com.ꝙ nec̄e eſt vt faciēs ptes ma gnitudis ſit magn:q2 vnūqōqȝ fit a ſuo ſili ſm actū:in hoc ēt ſenſu credim9 Auer. ⁊ Ari.loquutos.8.phy.tex.⁊ cō.51.⁊ 4° celi.t.⁊ cō.2 4.qn̄ dixerūt motū augmētationis ab ex trinſeco motore tāq̄ꝫ a ꝓpinq̄ motore ɔuenire rōne.ſ. nu trimēti:ab itrinſeco aūt tanq̄ꝫ a motore remoto a calore.ſ. nāli qui eſt in re q̄ augeť:q2.ſ.calor nālis nō auget niſi me diāte nutrimēto qō ab extriſeco aduenit: q2 vt docet Ari. in 2° de gnōne nō fit vera augm̄tatio niſi p aduētuȝ noue māe:qa igit nālis calor agit augēdo mete nutrimēto ſili ēt mō repatit quo agit.ſ.mete nutrito. dūȝ.n.nutrimētū cōco quit dū ɔuertit in ſubaȝ mēbri dū poſtea ēt pfecte aſſilat ipſi mēbro/ɔti9 multe ipſi9 ptes reſoluūt in vapores:mul te in ſupfluitates:⁊ ita ɔtie diminuit ei9 q̄titas dūȝ corpus nr̄m auget.ſub h igit re⁹ inq̄tū.ſ.nō niſi ipſo mete aīa ⁊ ca lor nālis agit in motu augm̄ti hȝ qudāmō rōnē vltimi agē tis ⁊ imediati ipſi paſſo: ⁊ hac rōne in ipſo ſaluat reactio vera in motu augmēti. ¶ Sȝ dicet aliqs his ēt oībus cō ceſſis adhuc nō ſaluat vera reactionis rō in motu augm̄: nō.n.nutrimētuȝ ꝑꝑc dī diminui/cū nō ſit aīatū. ¶ Ad h dī/ꝙ nō ſoluȝ diminuit q̄titas nutrimti añ ɔuerſionē ei9: ſȝ poſt ɔuerſionē ēt in ſubaȝ nutriti/ qñ iaȝ factū eſt aīatū. nō.n.fcā ɔuerſione ſtatiȝ qeſcit calor:ſȝ poſtea ēt in ipſum agit pfecte ipm aſſimilādo: vt ab Auic. pōt colligi pa pmi. ca° de hūorib9 ⁊ ſūma ēt de v̄tutib9, vbi de v̄tute nutritiua agit:nō.n.nutrimētū ɔuerſuȝ ſtatiȝ eſt ēt ſile ex toto mēbro in mō ſubē ⁊ multis accn̄tib9.dūȝ igit pfecte aſſilat multe ipſi9 ptes reſoluūt: ⁊ ita ɔtinue diminuit. hec oīa vt ꝓba bilr dicta accipiat nō renuendo iudiciū coꝝ q nobis plus ſapiūt:que ſufficiāt q̄tū ad māȝ de reactiōe ad laudē eius qui ab omni reactione ⁊ mutatione liber omnia mouet ⁊ regit ⁊ oīum bonoruȝ eſt prima cauſa.

¶ Explicit qō de reactiōe edita ab exmo doctore dñō Ui ctore trincbauello Ueneto necnō Calculationū liber ma giſtri Raymundi Suiſeth. Nouiter ipreſſa Uenetijs ere ac ſollerti cura heredū.q.dñi Octauiani Scoti ciuis Mo doctienſis ac ſocioꝝ. Anno a dñica incarnatiōe Milleſi mo qngenteſimo vigeſimo. decimo kal. Aprilis. Ad lau dem eius qui maior eſt omni laude.

Regiſtrum.

a b c d e f g h i k l m Omens ſunt Terni preter l qui eſt Quaternus.